

Figure 1

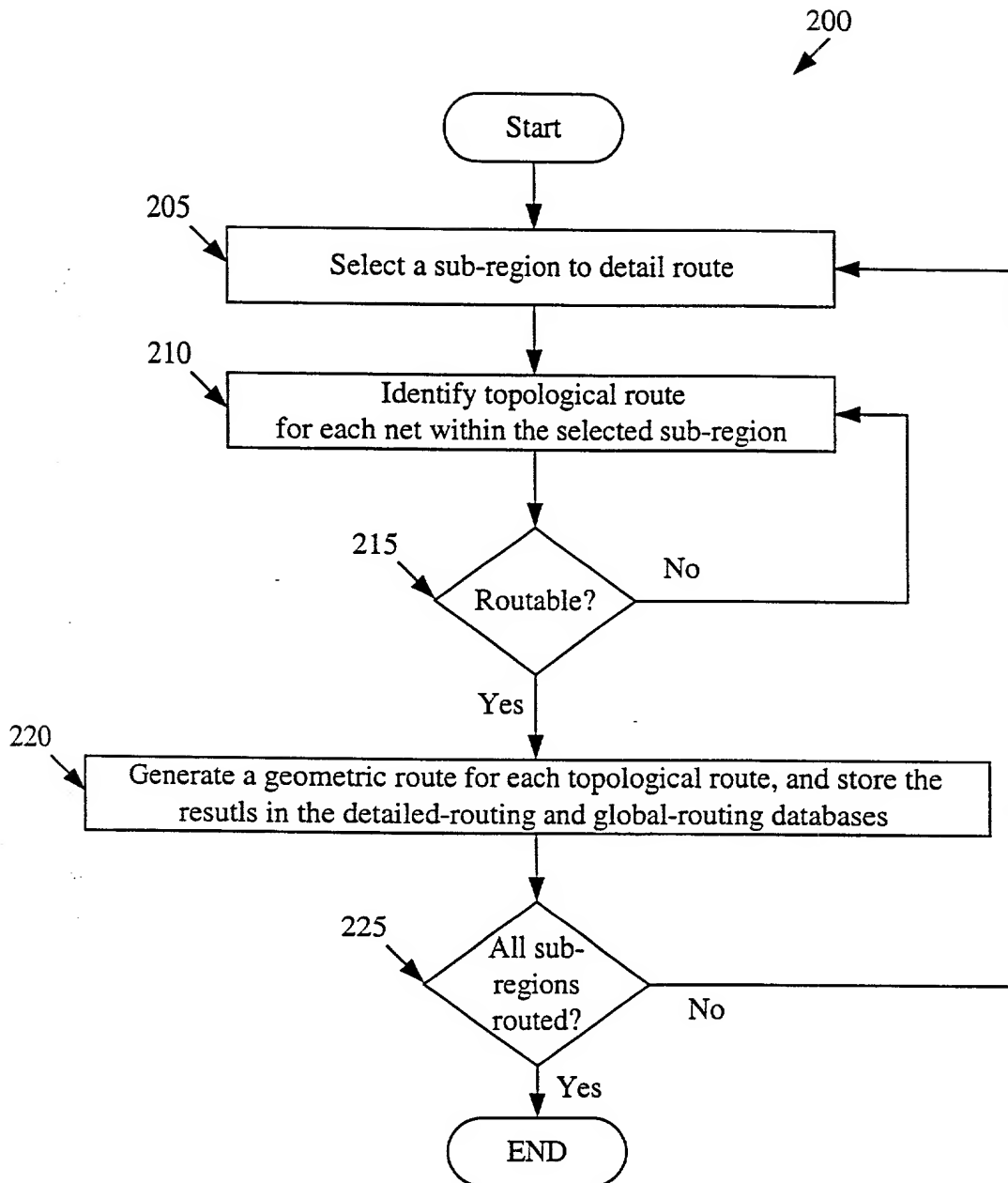


Figure 2

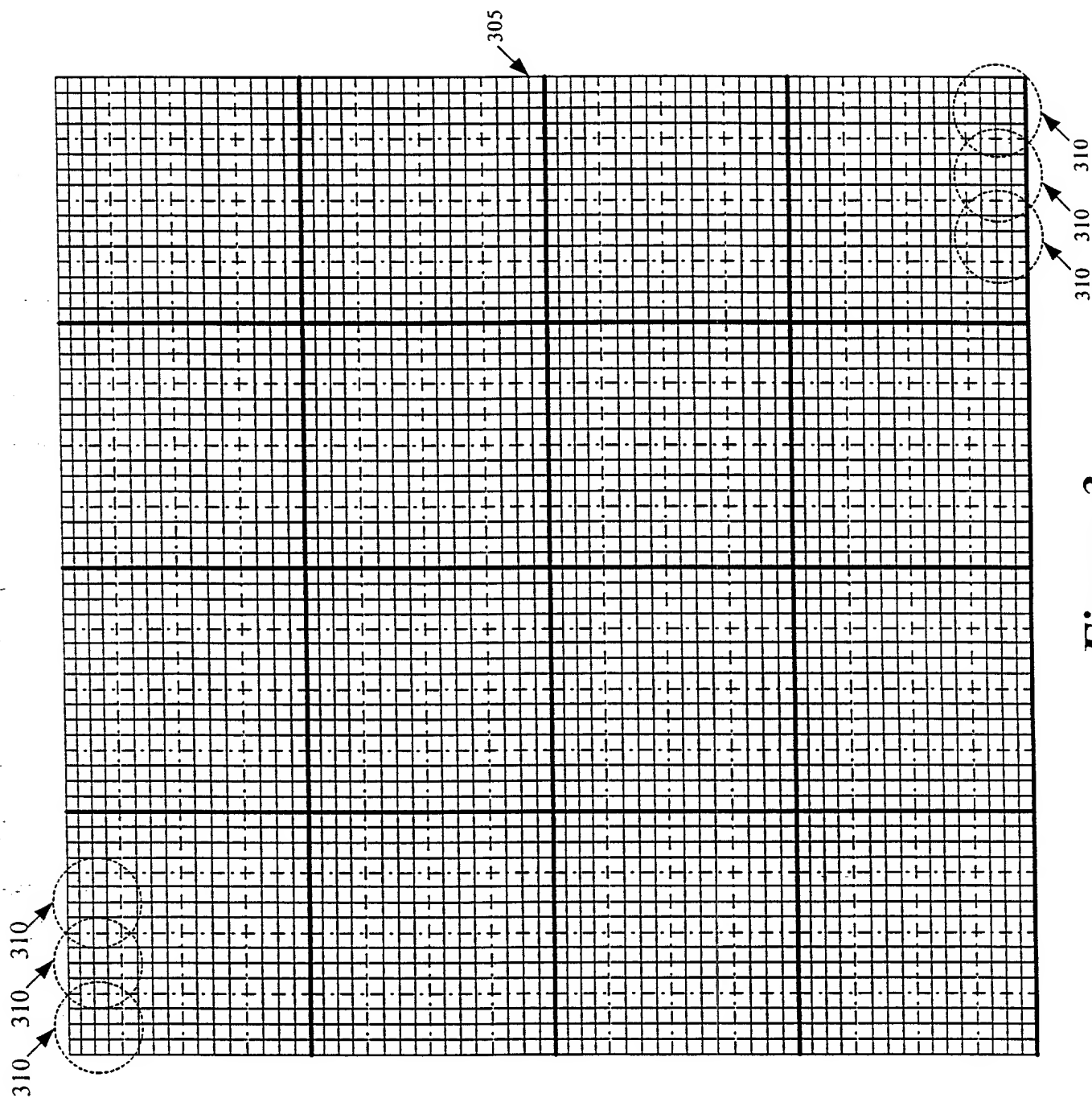


Figure 3

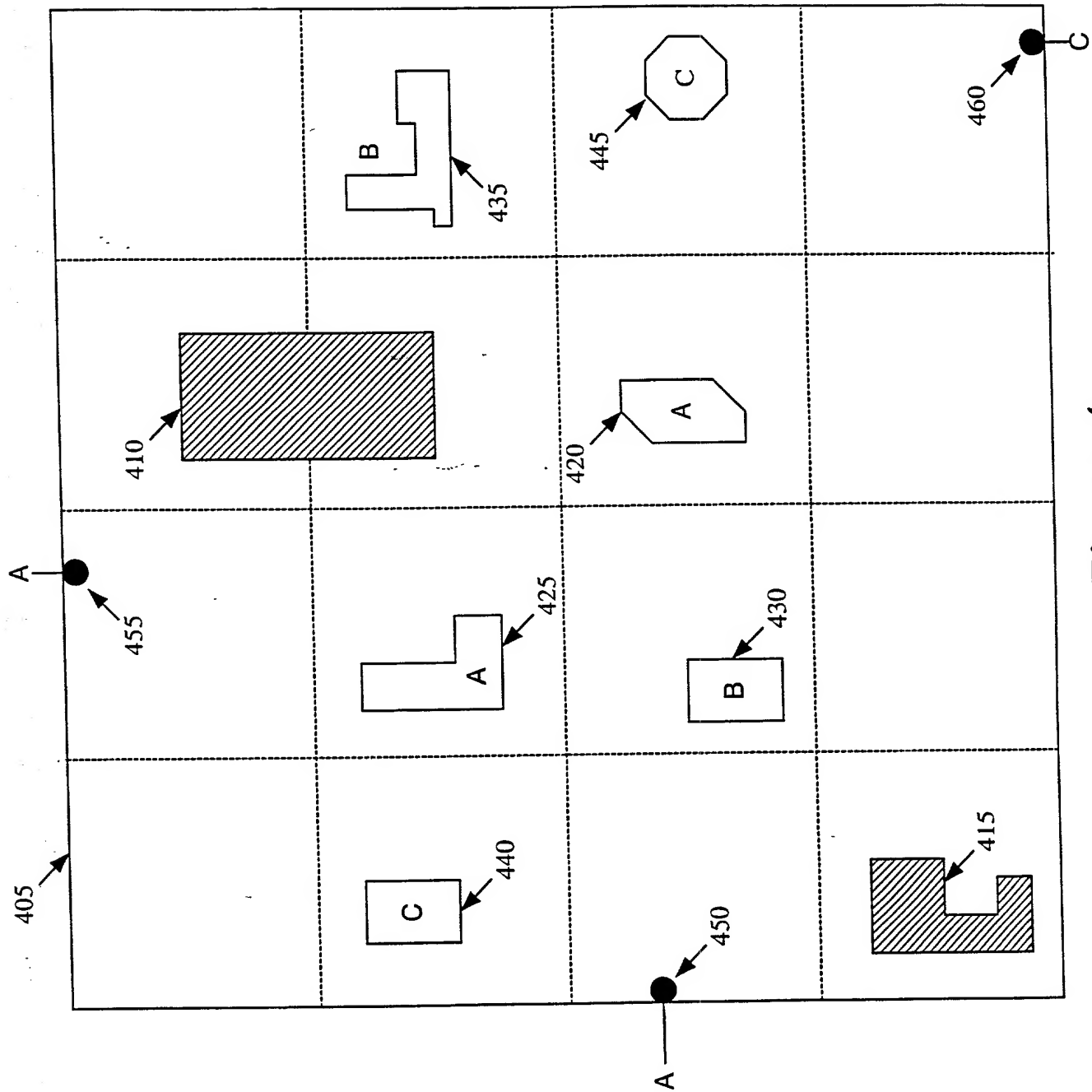


Figure 4

2016-09-09

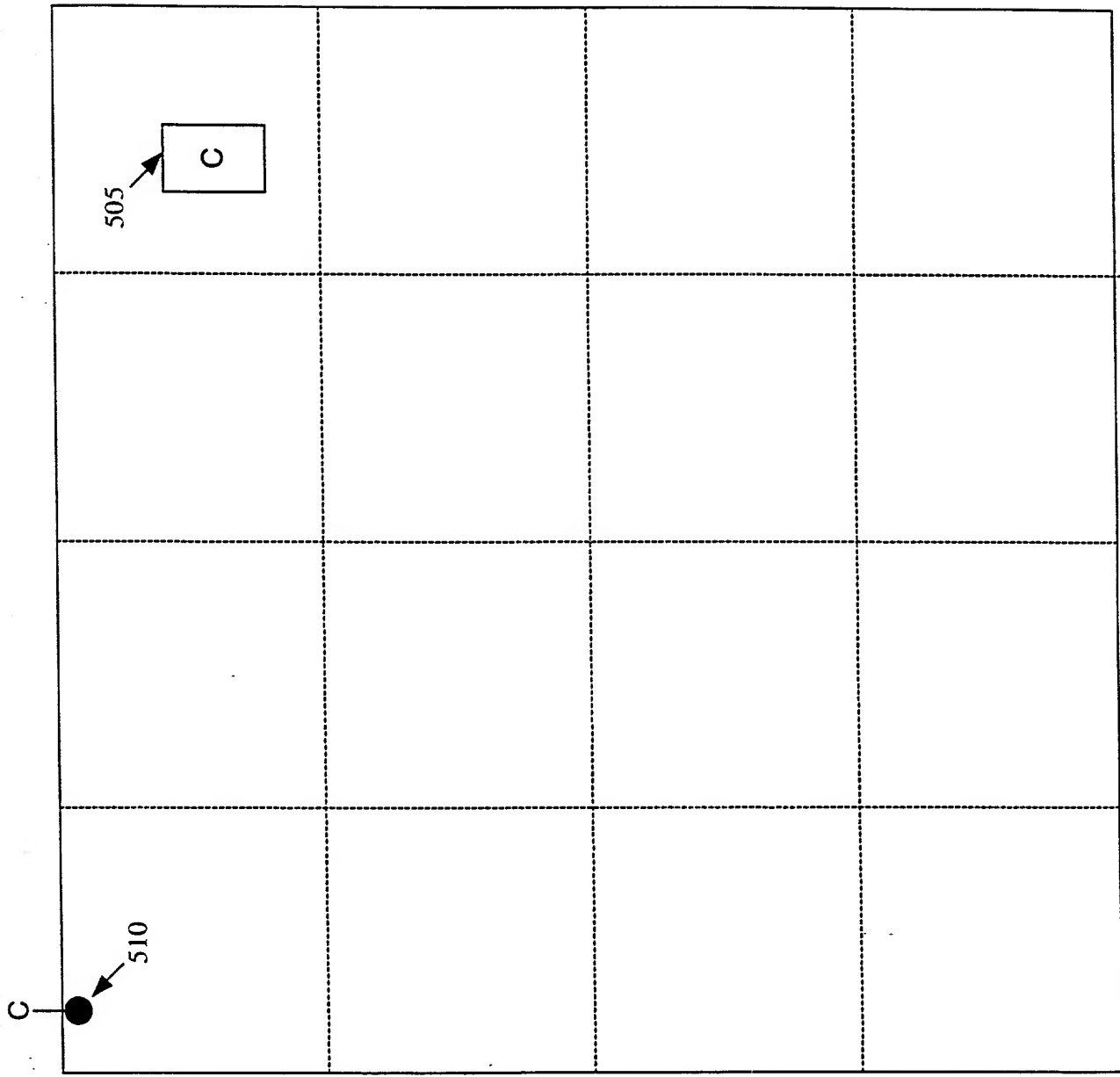


Figure 5

```

-List of Geometries
  --Each Geometry including a sequence of points & layer assignment
-Bounding box of the region
-Array of layer properties
  --Minimum wire size
  --Minimum spacing
  --Via sizes
  --Cost/Unit
-Netlist specifying a number of nets
  --Each net specifying a set of pins
  --Each pin specifying a set of ports
  --Each port specifying a set of geometries

```

Figure 6

```

-List of Geometries
  --Each Geometry including a sequence of points & layer assignment
  --List of connection nodes inside each pin geometry
-Bounding box of the region
-Array of layer properties
  --Minimum wire size
  --Minimum spacing
  --Via sizes
  --Cost/Unit
-Netlist specifying a number of nets
  --Each net specifying a set of pins
  --Each pin specifying a set of ports
  --Each port specifying a set of geometries
-For each layer, a graph specifying
  --Nodes
  --Edges
  --Faces

```

Figure 7

Face
<ul style="list-style-type: none">-Reference to 3 edges-Reference to 3 nodes-Up to two references for up to two face item

800

Figure 8

Edge
<ul style="list-style-type: none">-Two references for up to two faces of the edge-Capacity-Flow-Constrained-Linked list of items on the edge starting with one of the edge's nodes and ending with its other node

900

Figure 9

Node
<ul style="list-style-type: none"> -Net Identifier -One or more planar-path references to adjacent topological items in the same planar path -A pair of via-path references to up and down topological via items -A references to list of edges connected to the node -For each edge, an edge reference to the next or previous topological item on the edge -A reference to the geometry of the node -Vertex number identifying the vertex of the geometry -Location of the node

Figure 10

Edge Item
<ul style="list-style-type: none"> -Reference to its edge -Net Identifier -A pair of planar-path references to adjacent topological items in the same planar path -A pair of edge references to the next and previous topological item on the edge

Figure 11

Face Item
<ul style="list-style-type: none"> -Reference to its face -Net Identifier -Up to 3 planar-path references for adjacent topological items in the same planar path -A pair of via-path references for up and down topological via items -Bounding polygon that defines legal face item locations -Constraining Points and Distances

Figure 12

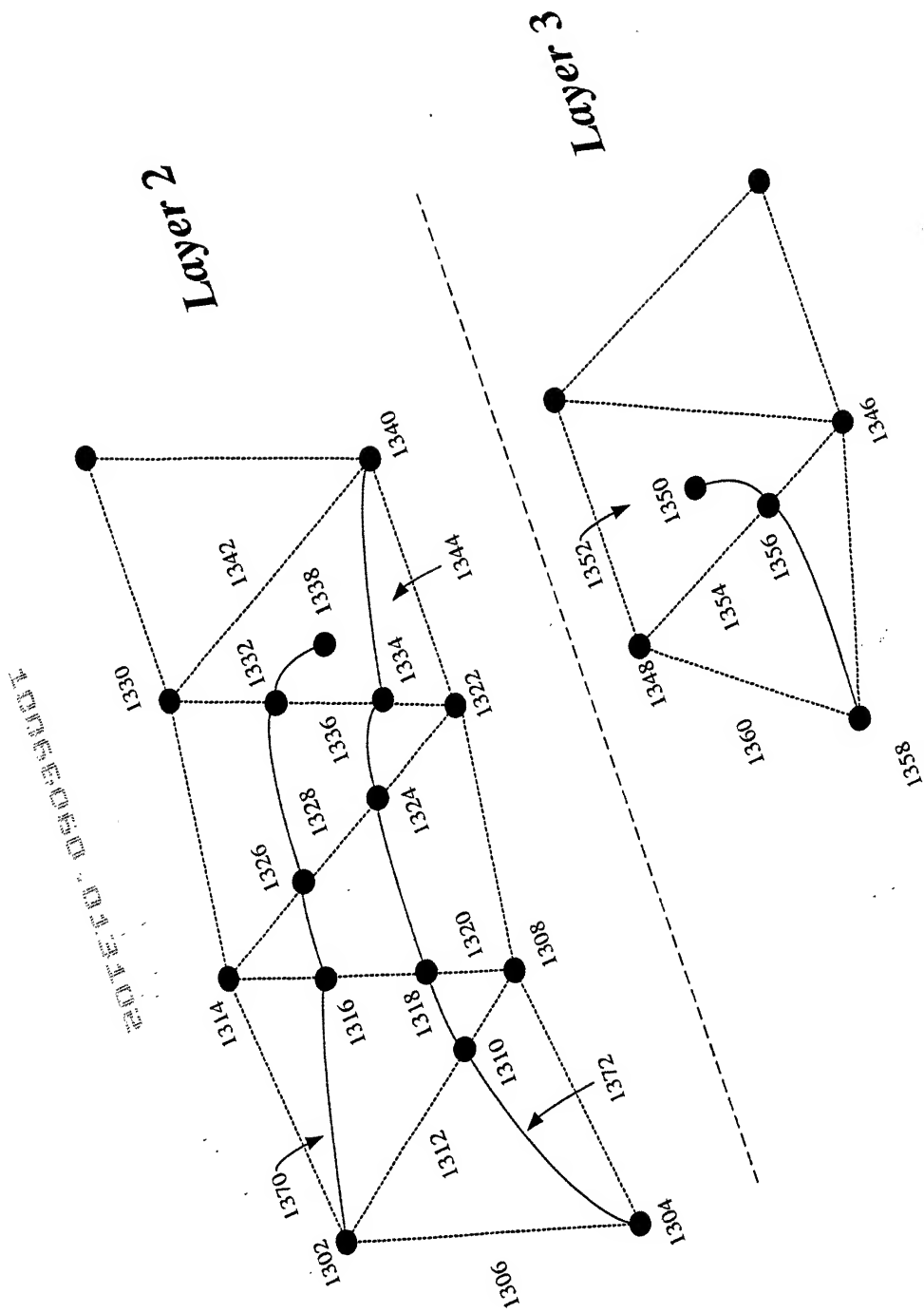
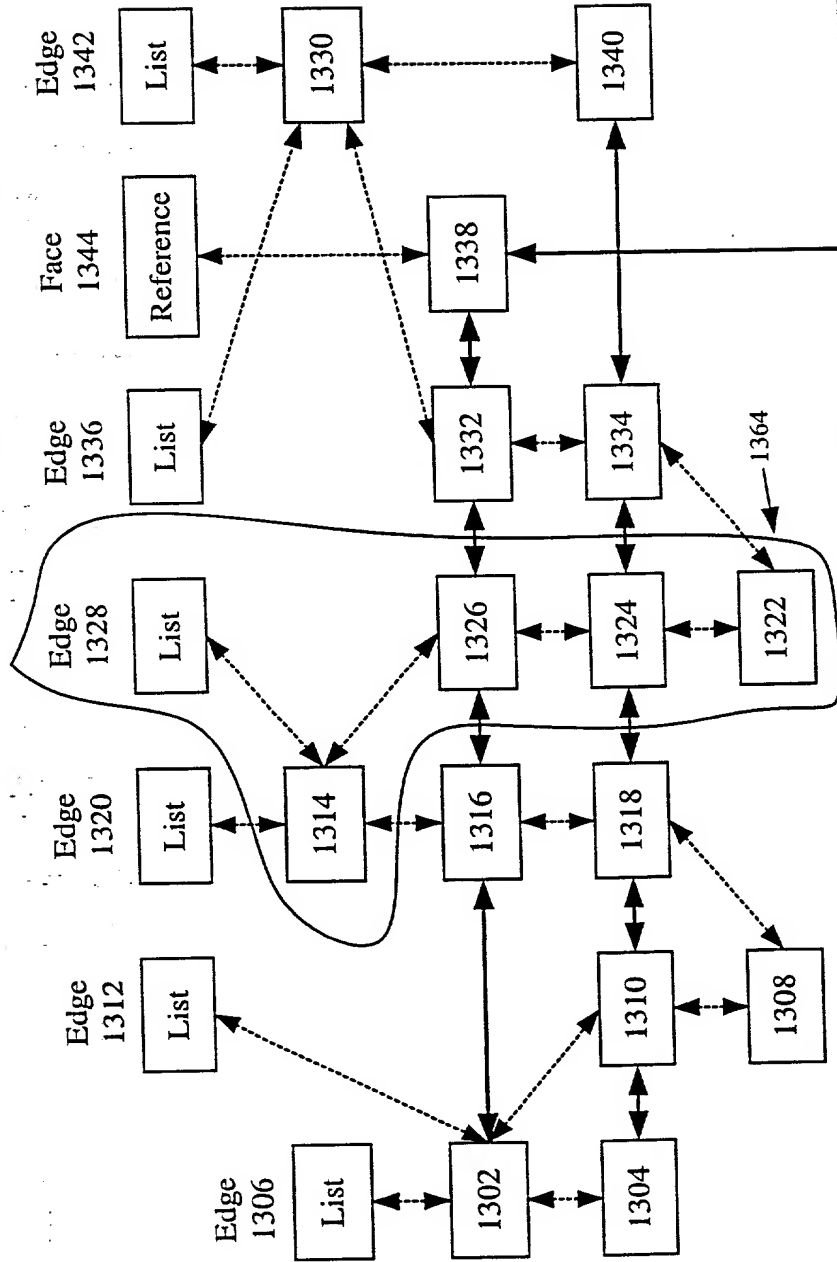


Figure 13



Layer 3

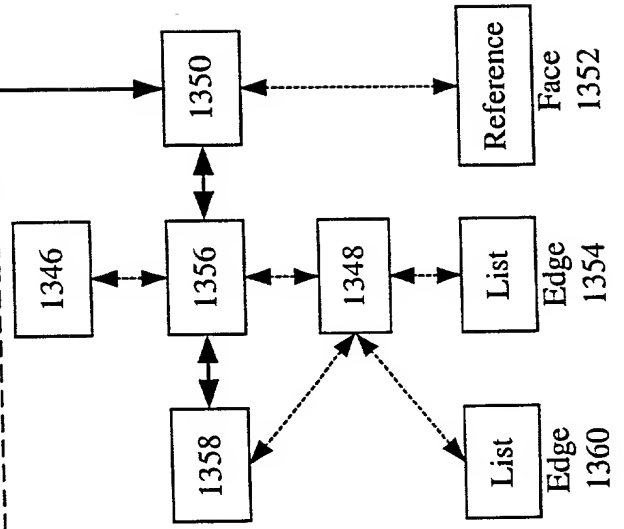


Figure 14

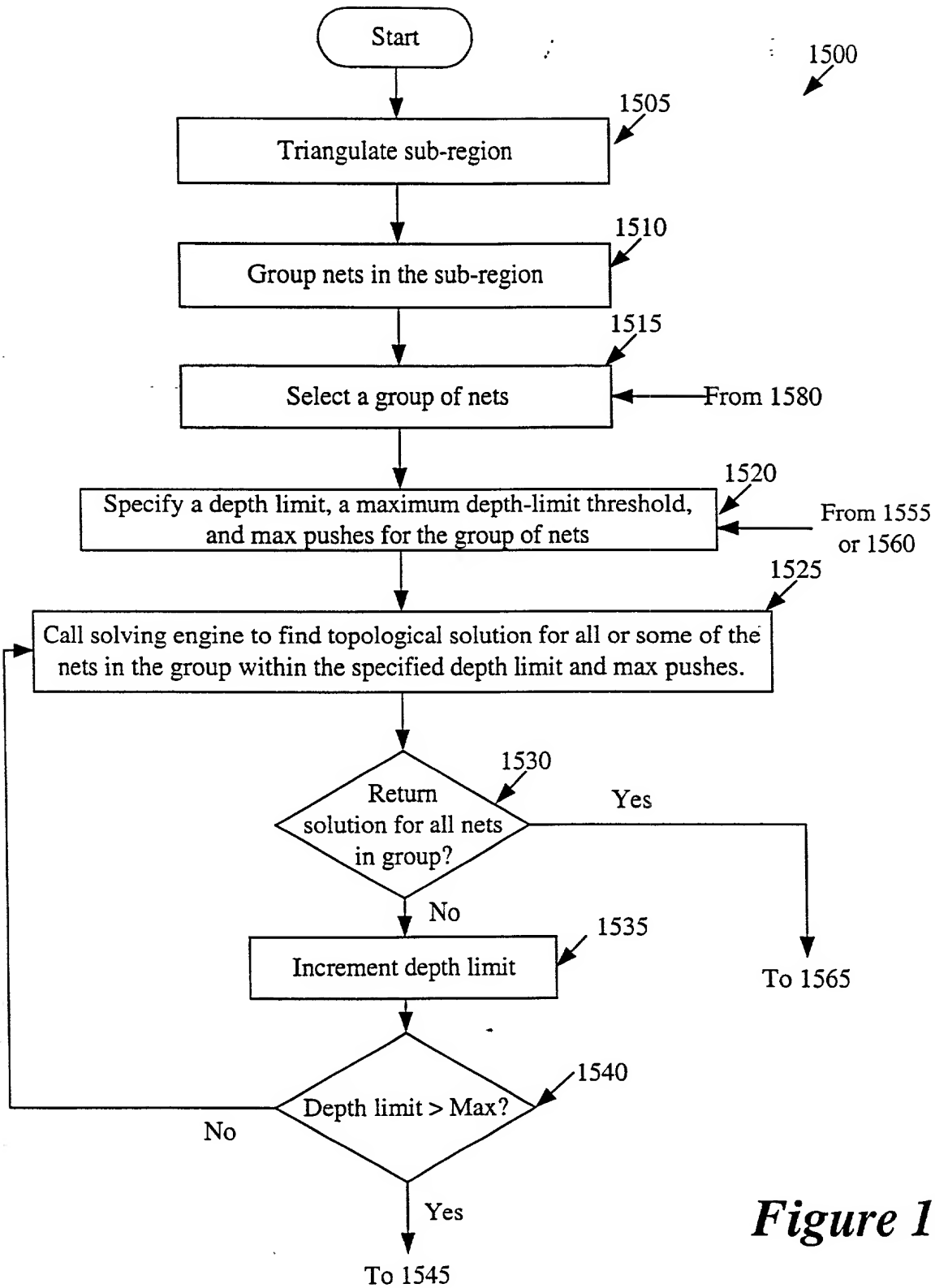
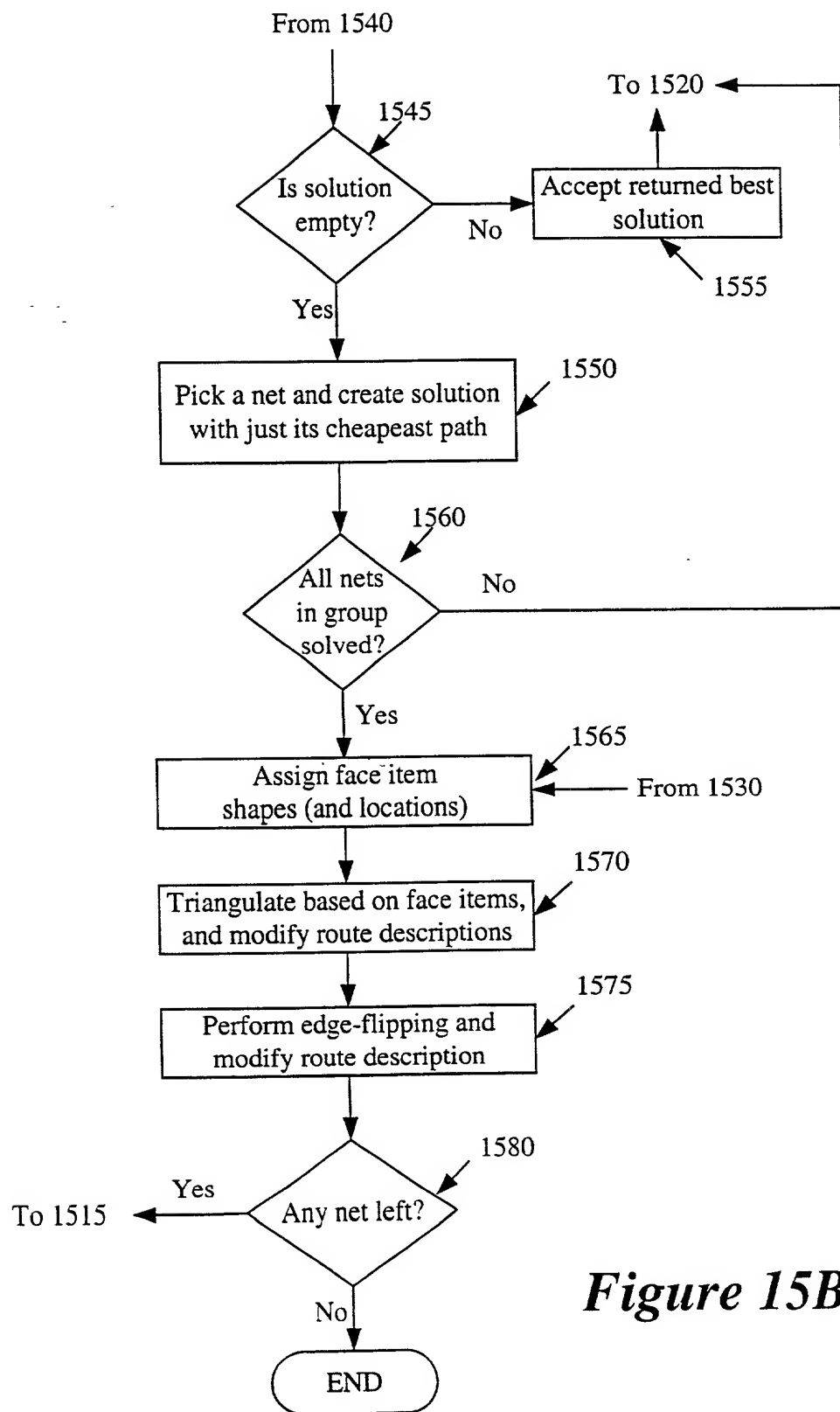


Figure 15A

Figure 15: *Figure 15A*
Figure 15B

**Figure 15B**

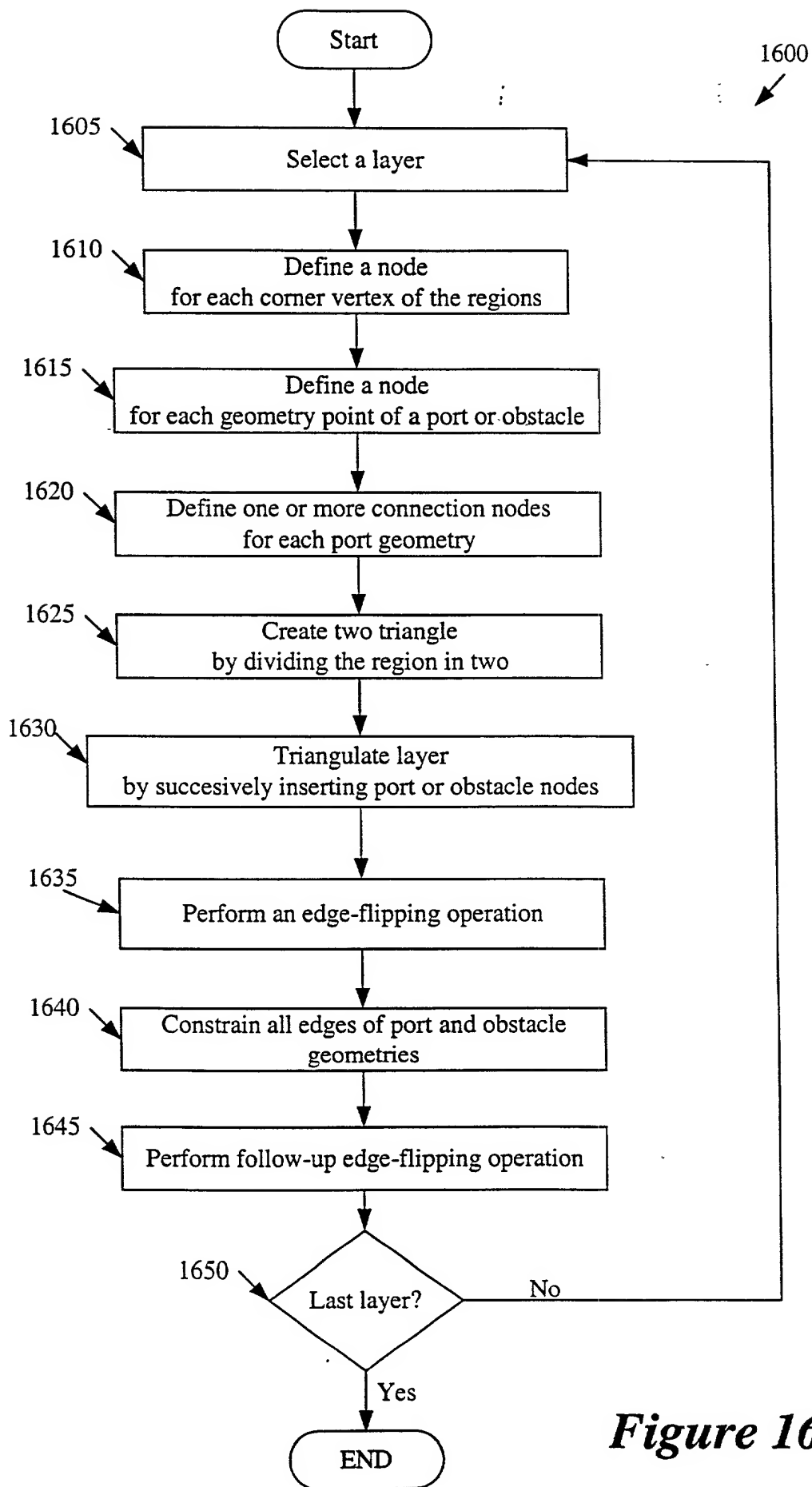


Figure 16

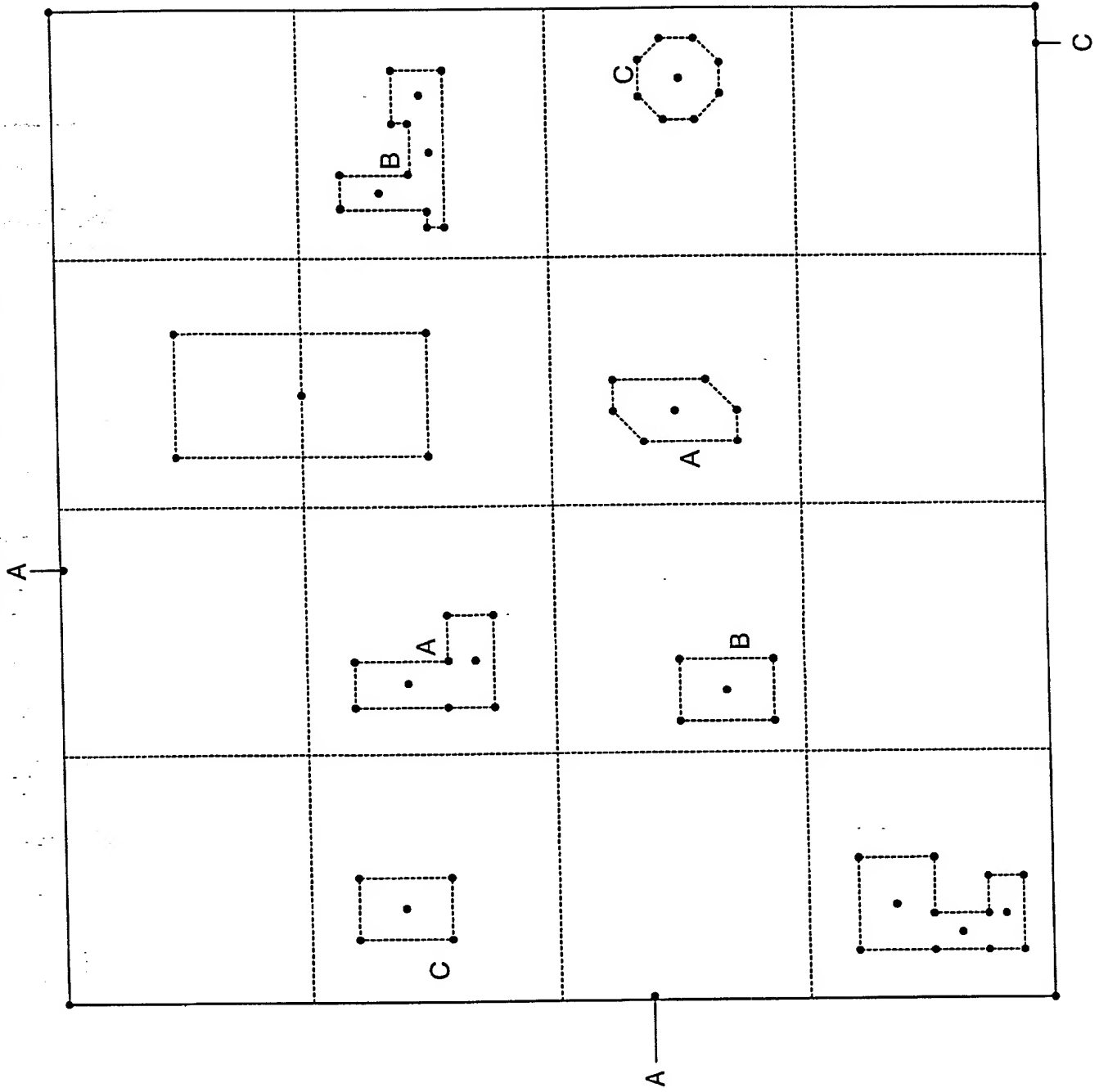


Figure 17

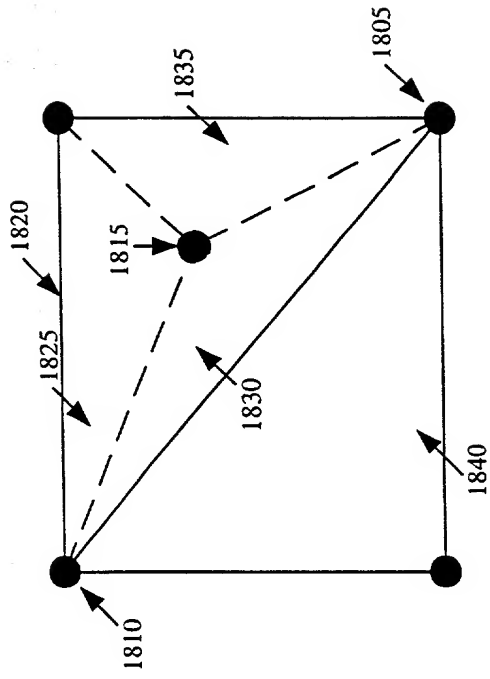


Figure 18

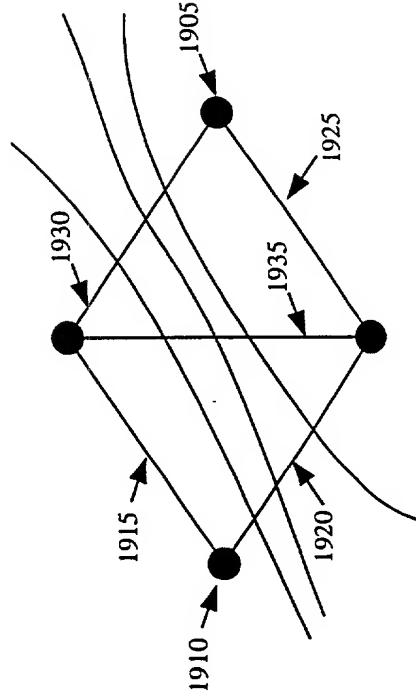


Figure 19

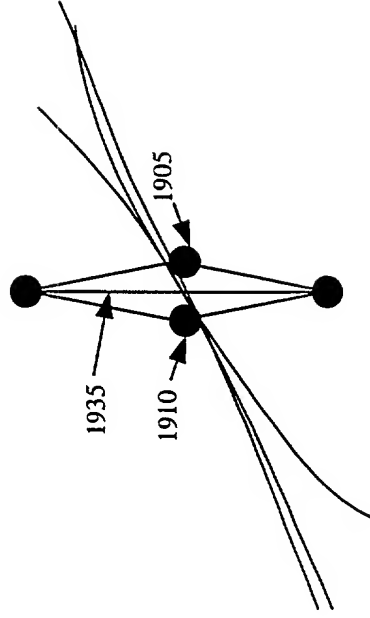


Figure 20

Figure 21

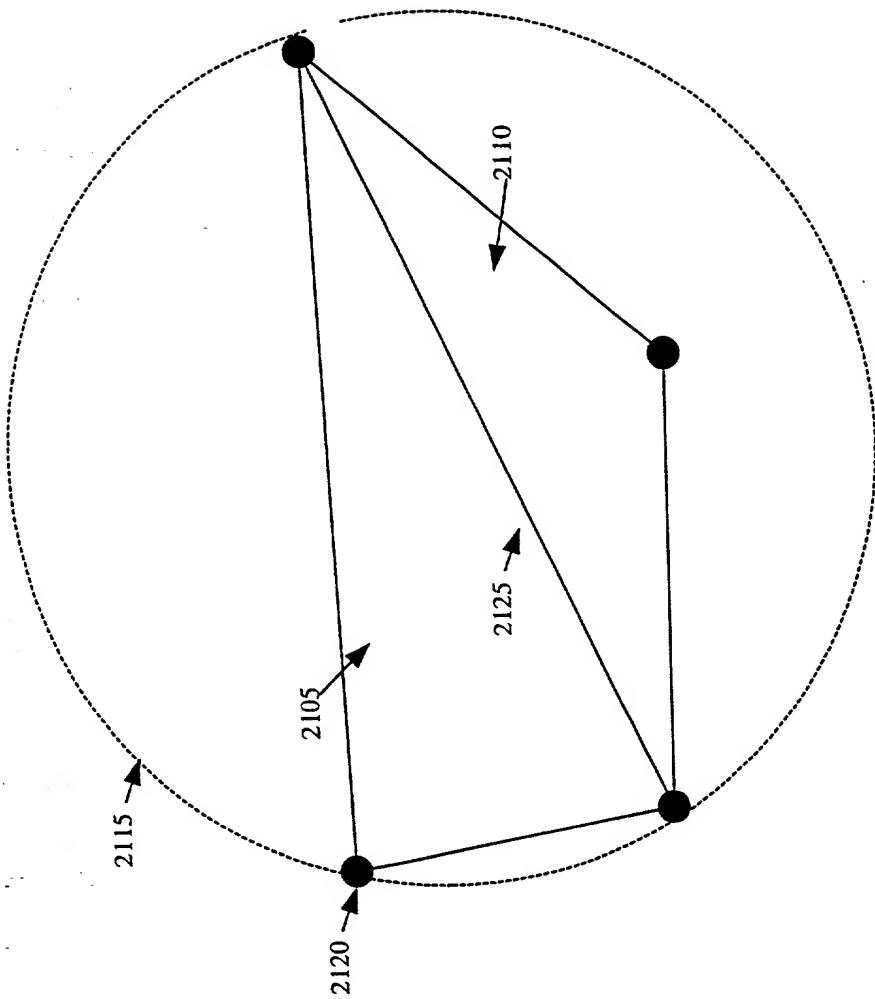
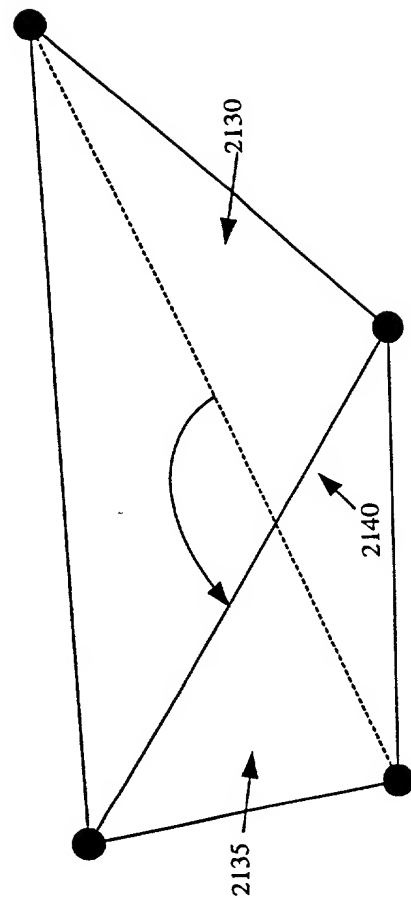


Figure 22



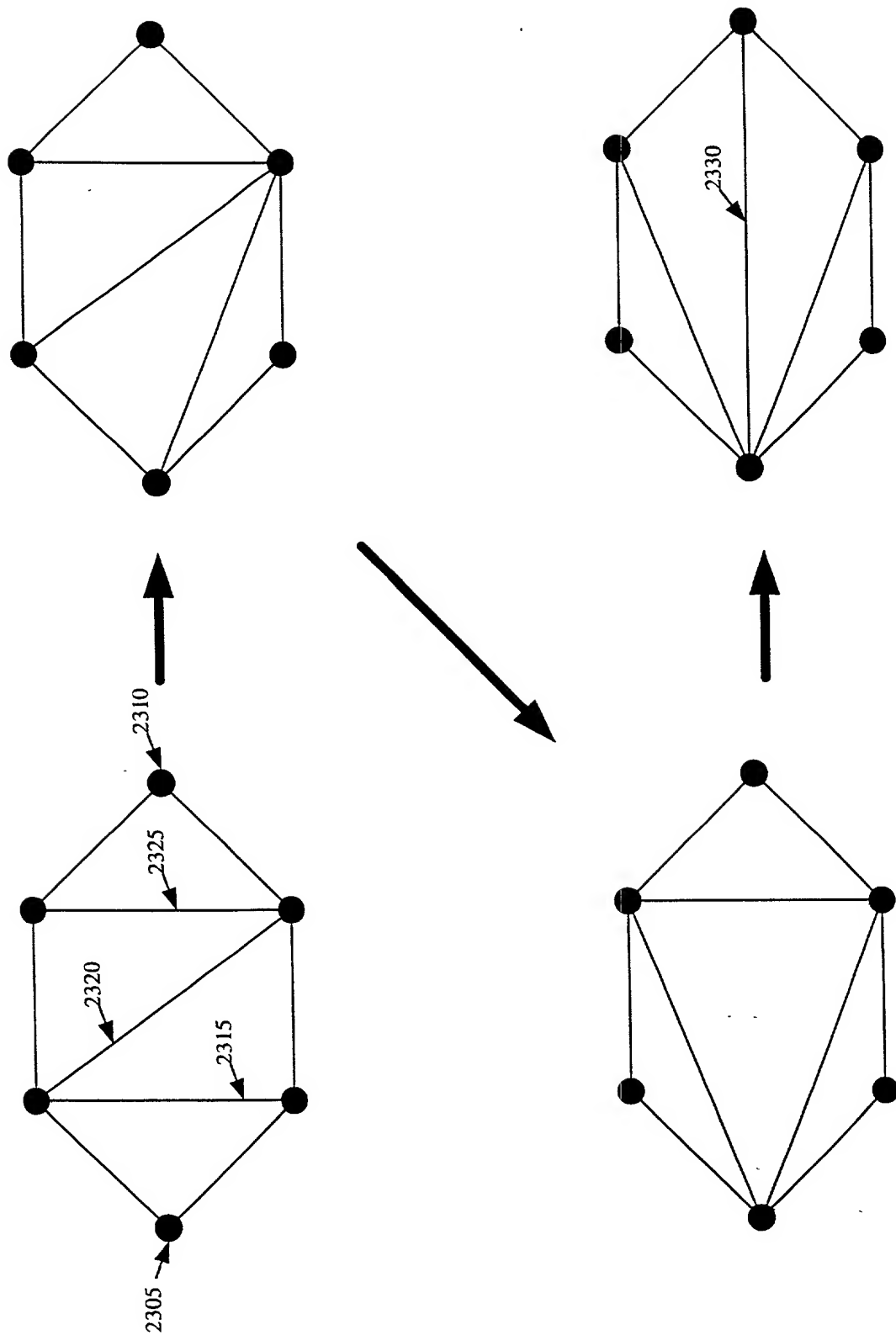


Figure 23

2015-09-09

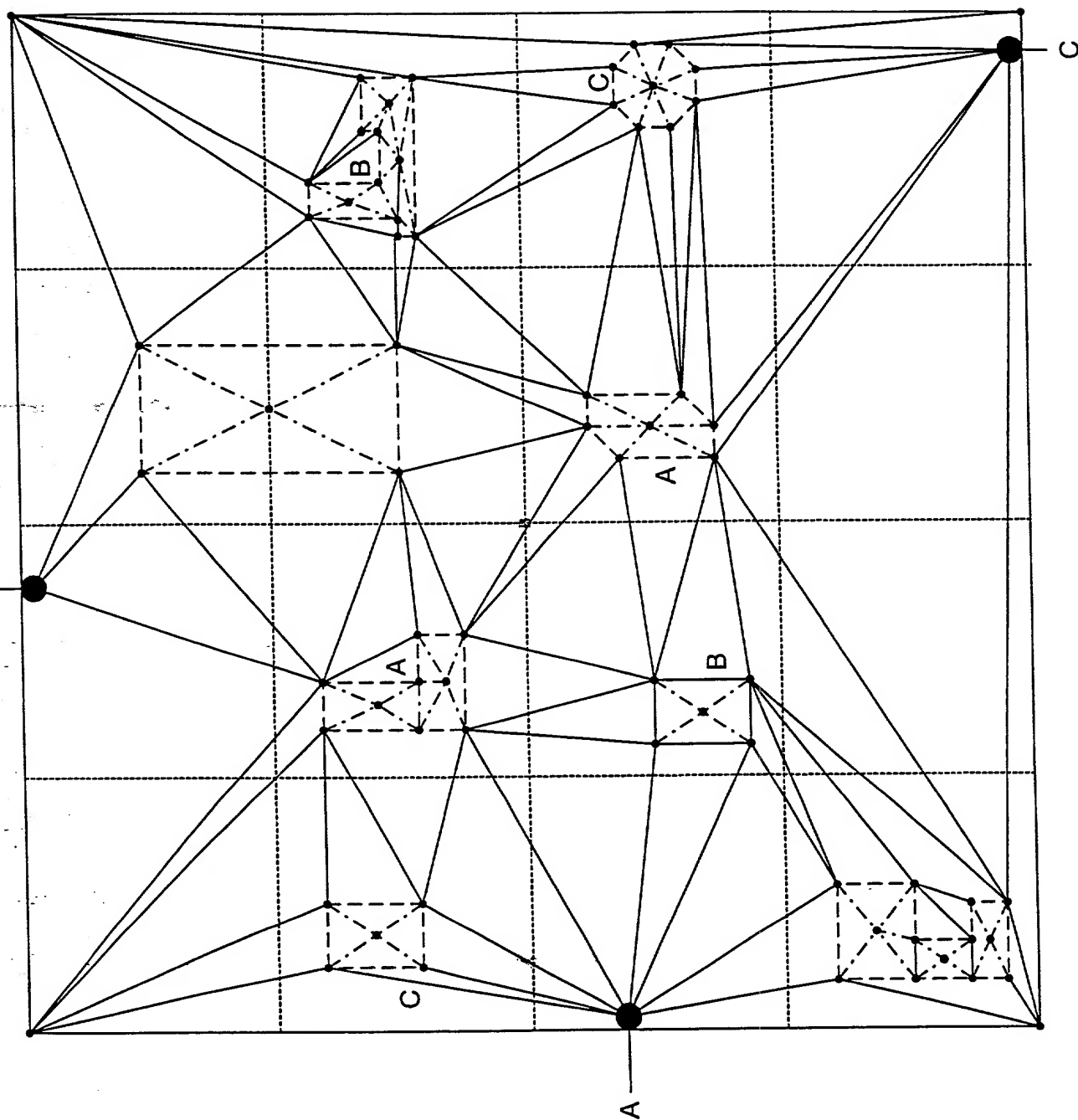


Figure 24

2025 RELEASE UNDER E.O. 14176

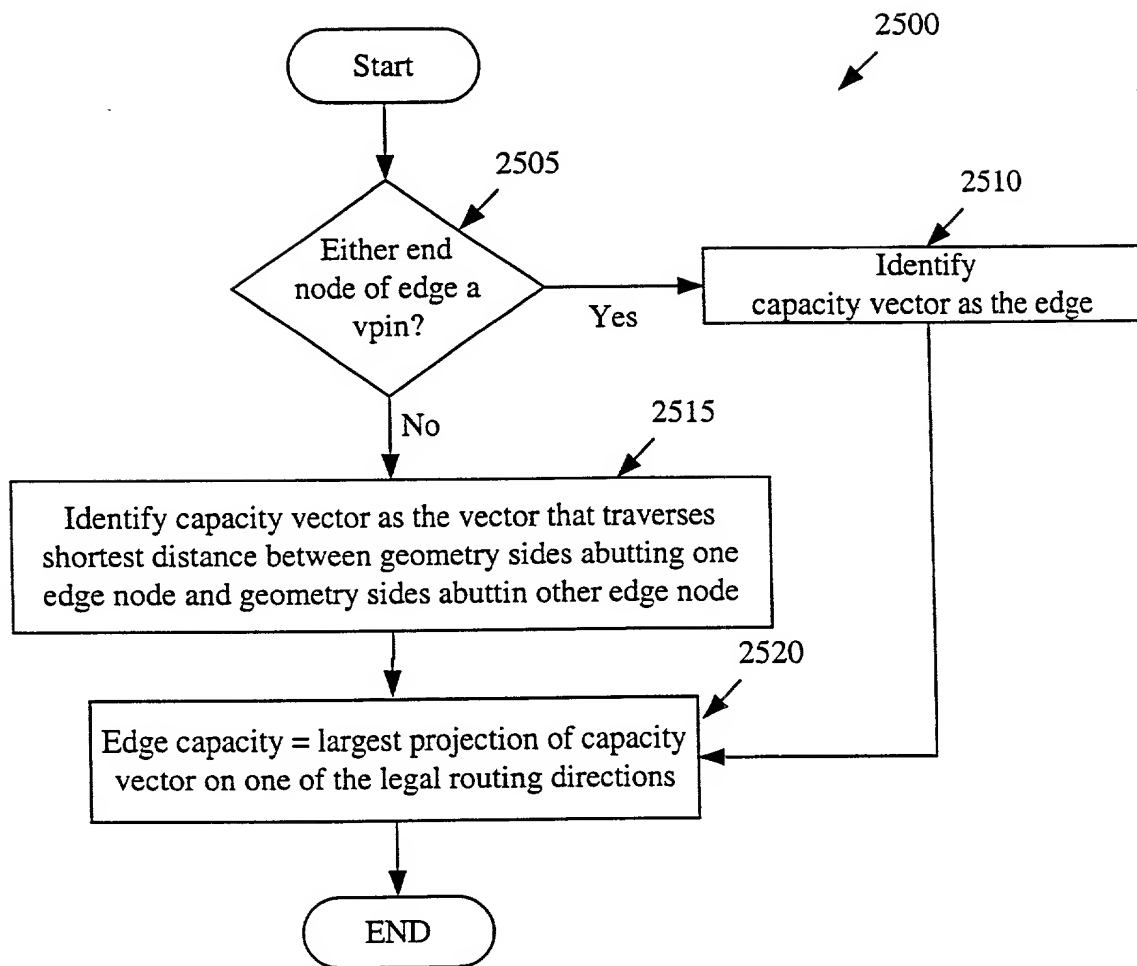


Figure 25

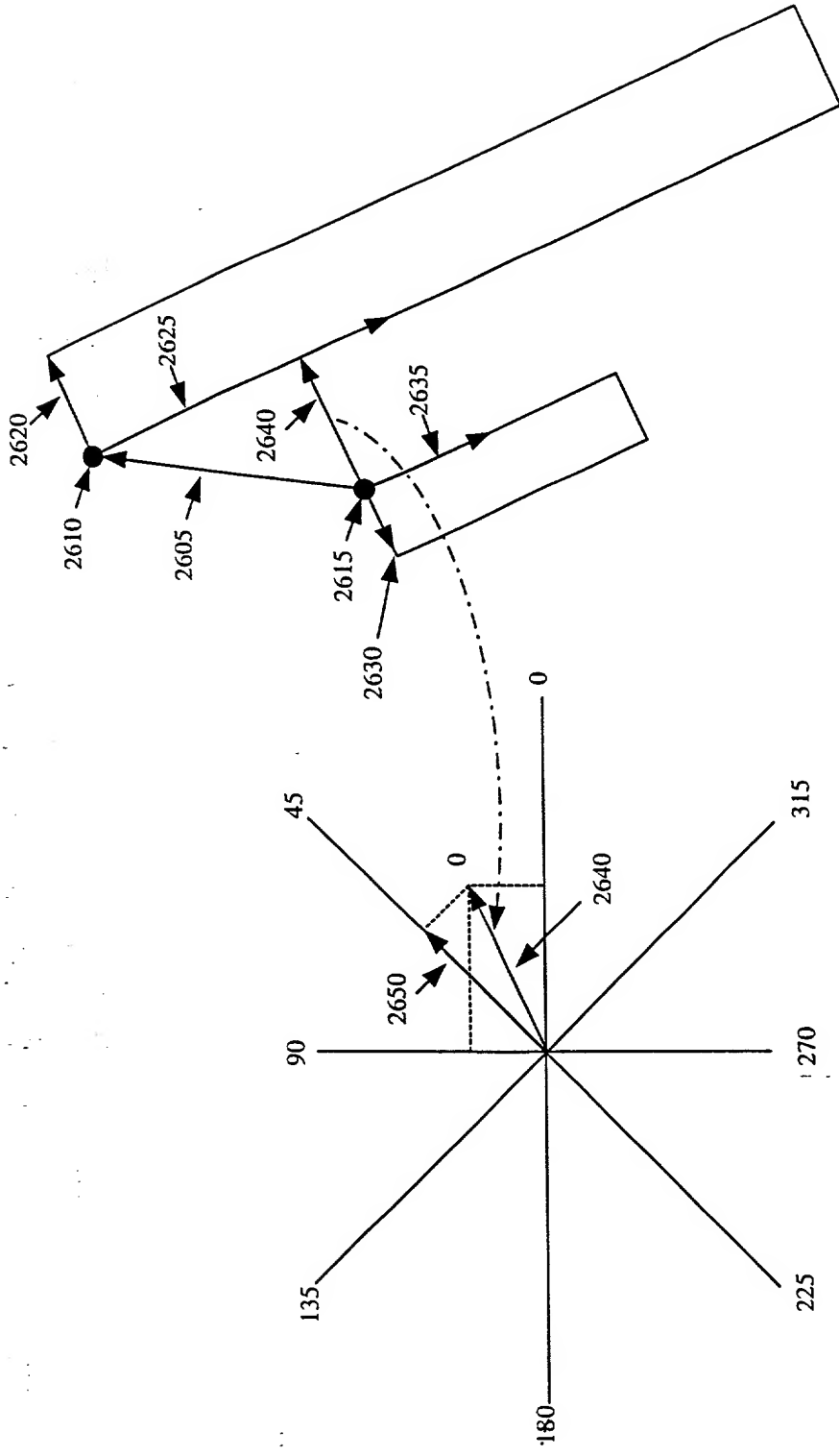


Figure 26

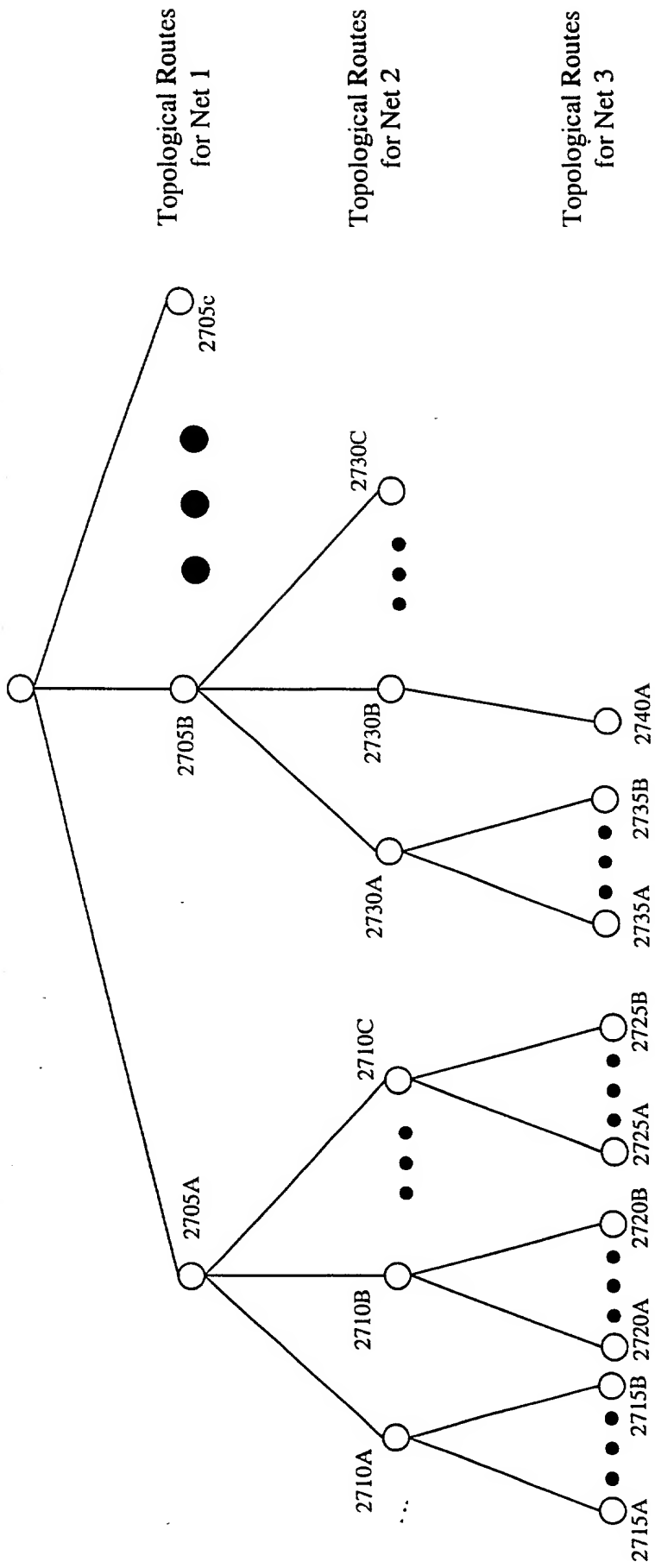


Figure 27

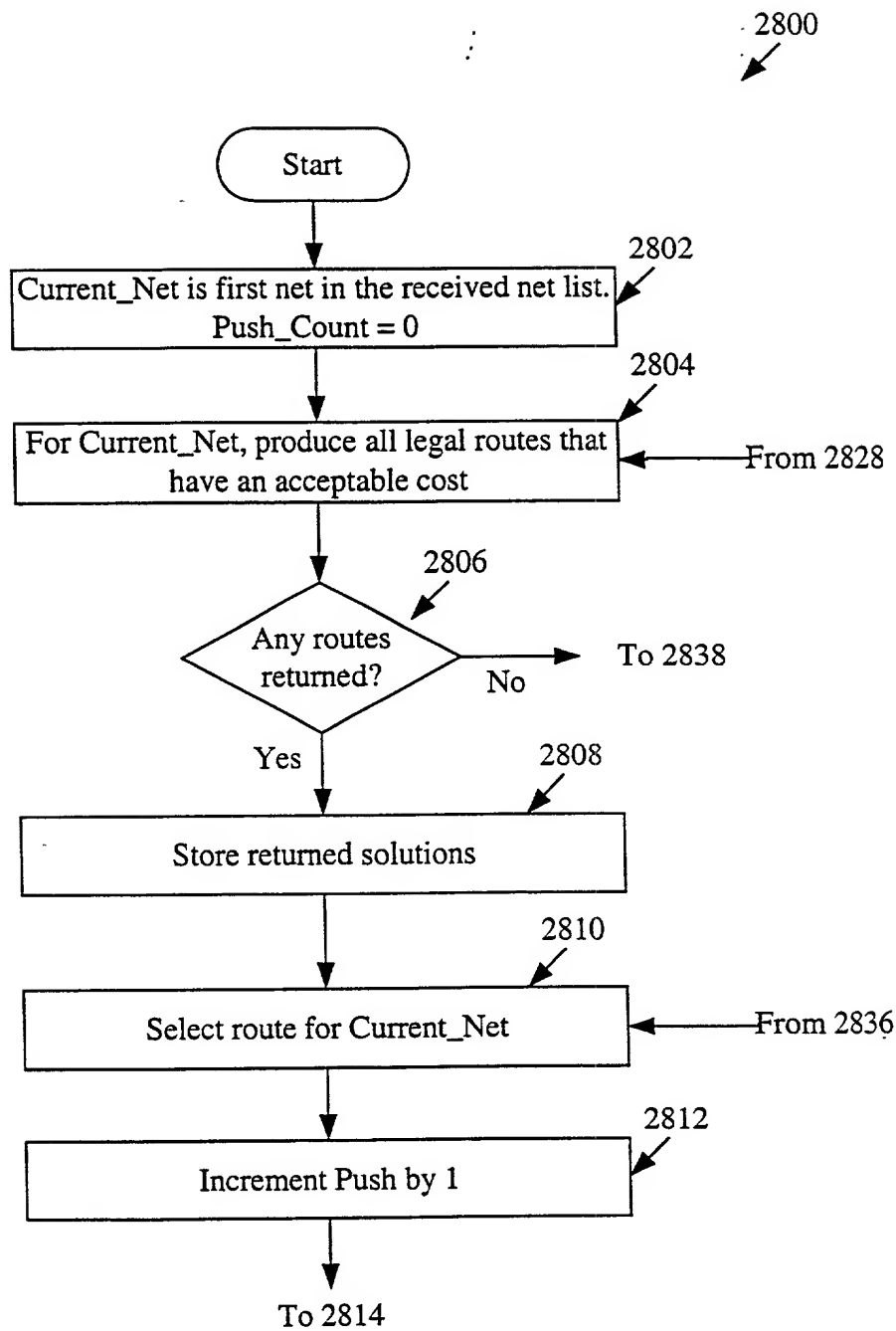


Figure 28A

Figure 28: Figure 28A
Figure 28B
Figure 28C

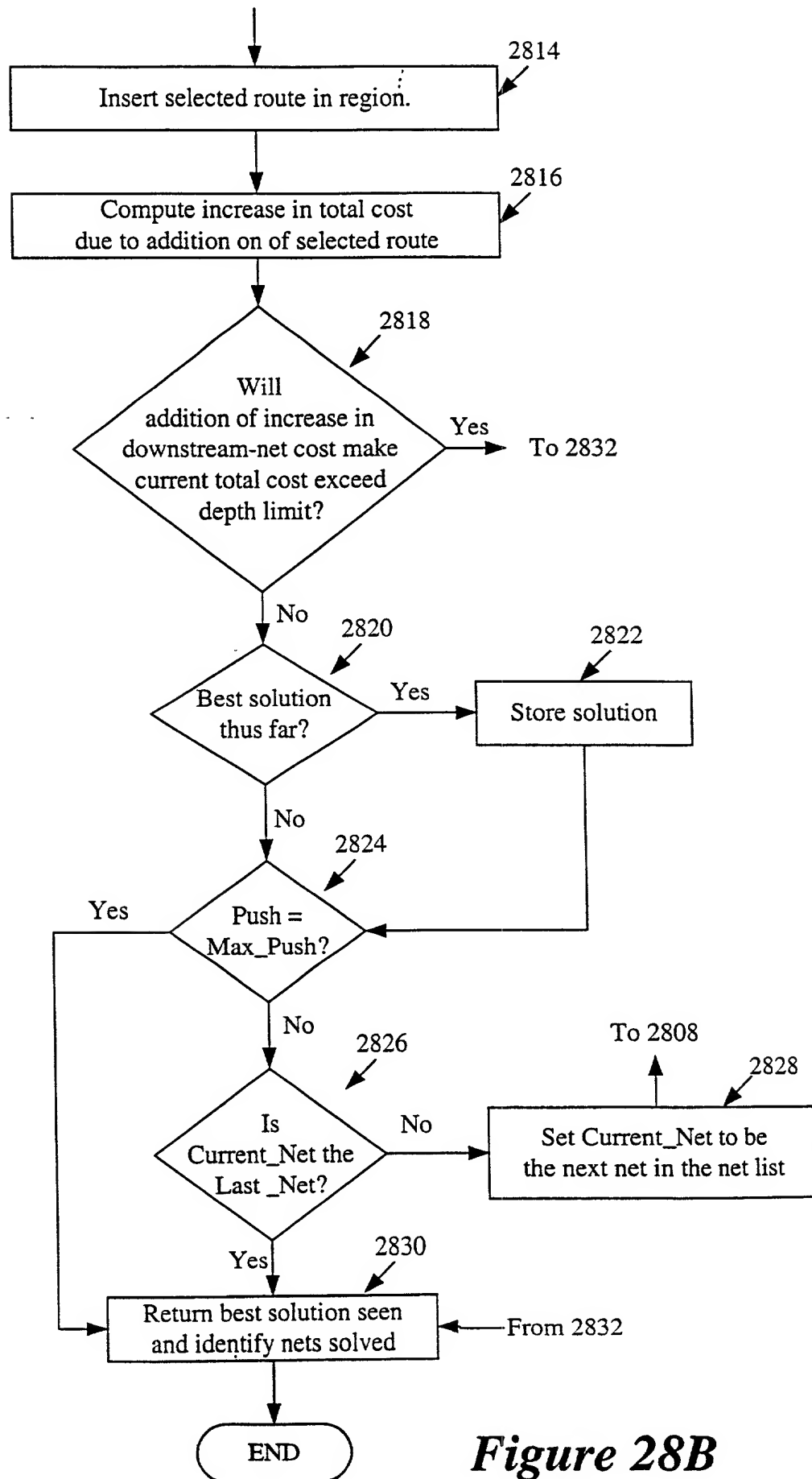


Figure 28B

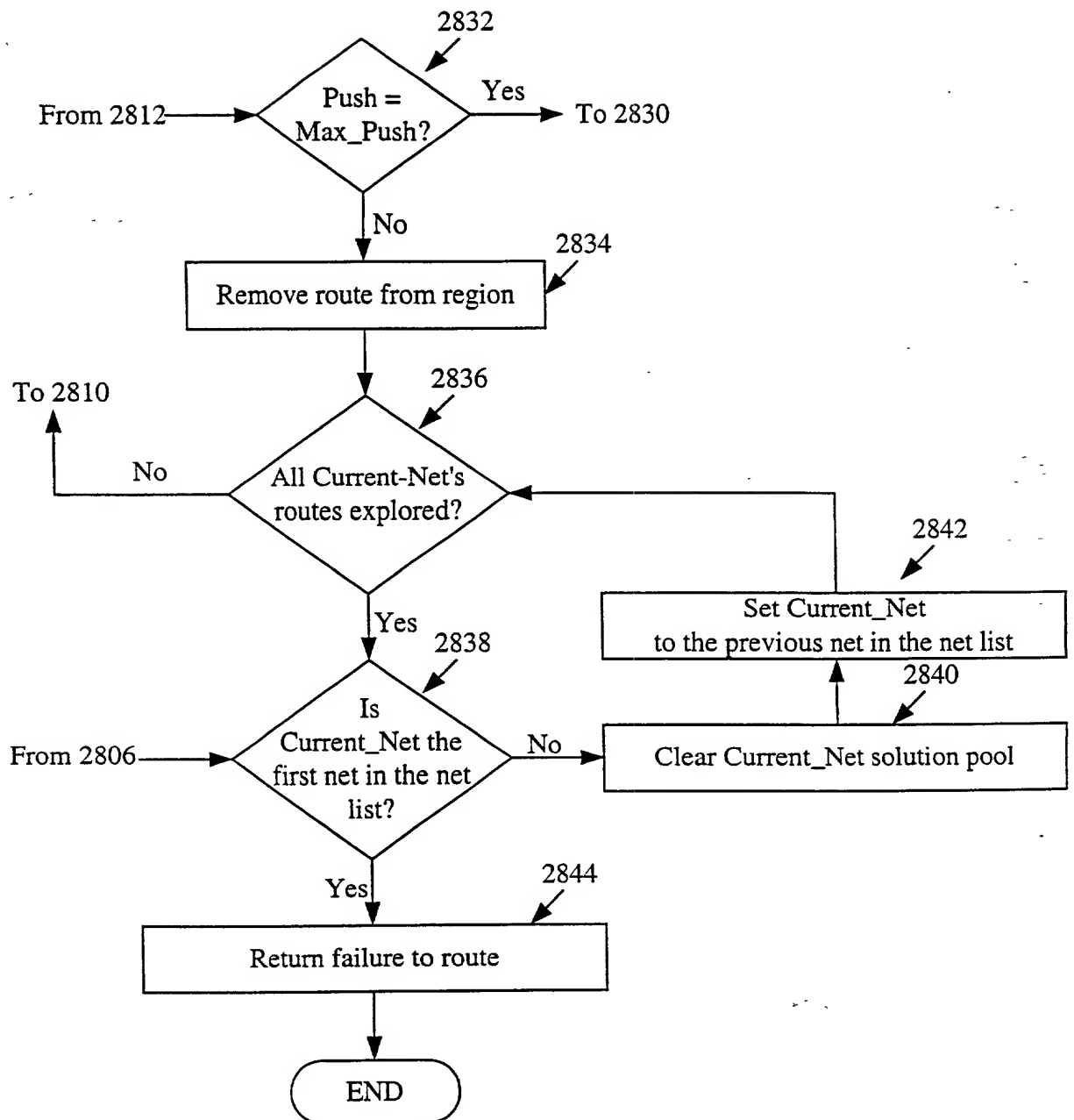


Figure 28C

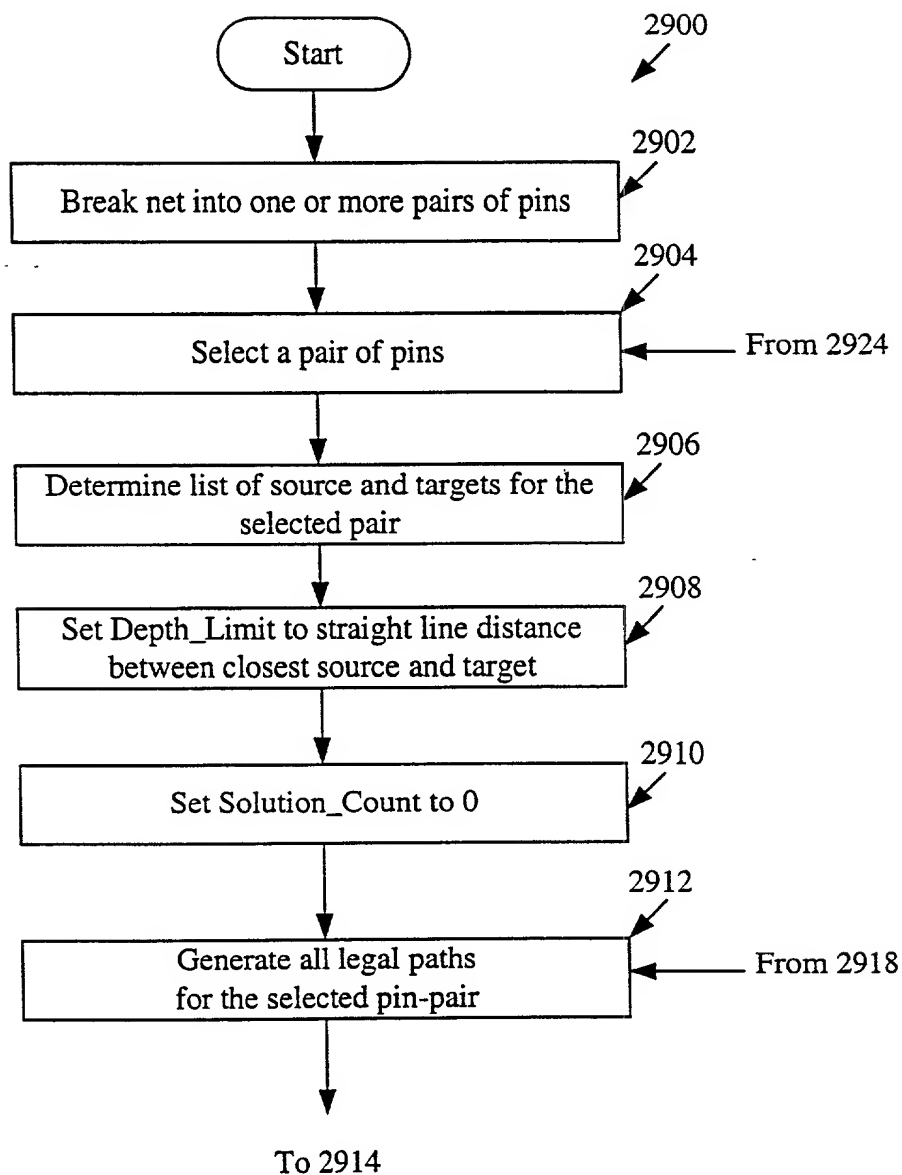


Figure 29A

Figure 29: $\frac{\text{Figure 29A}}{\text{Figure 29B}}$

20150601 09:09:00

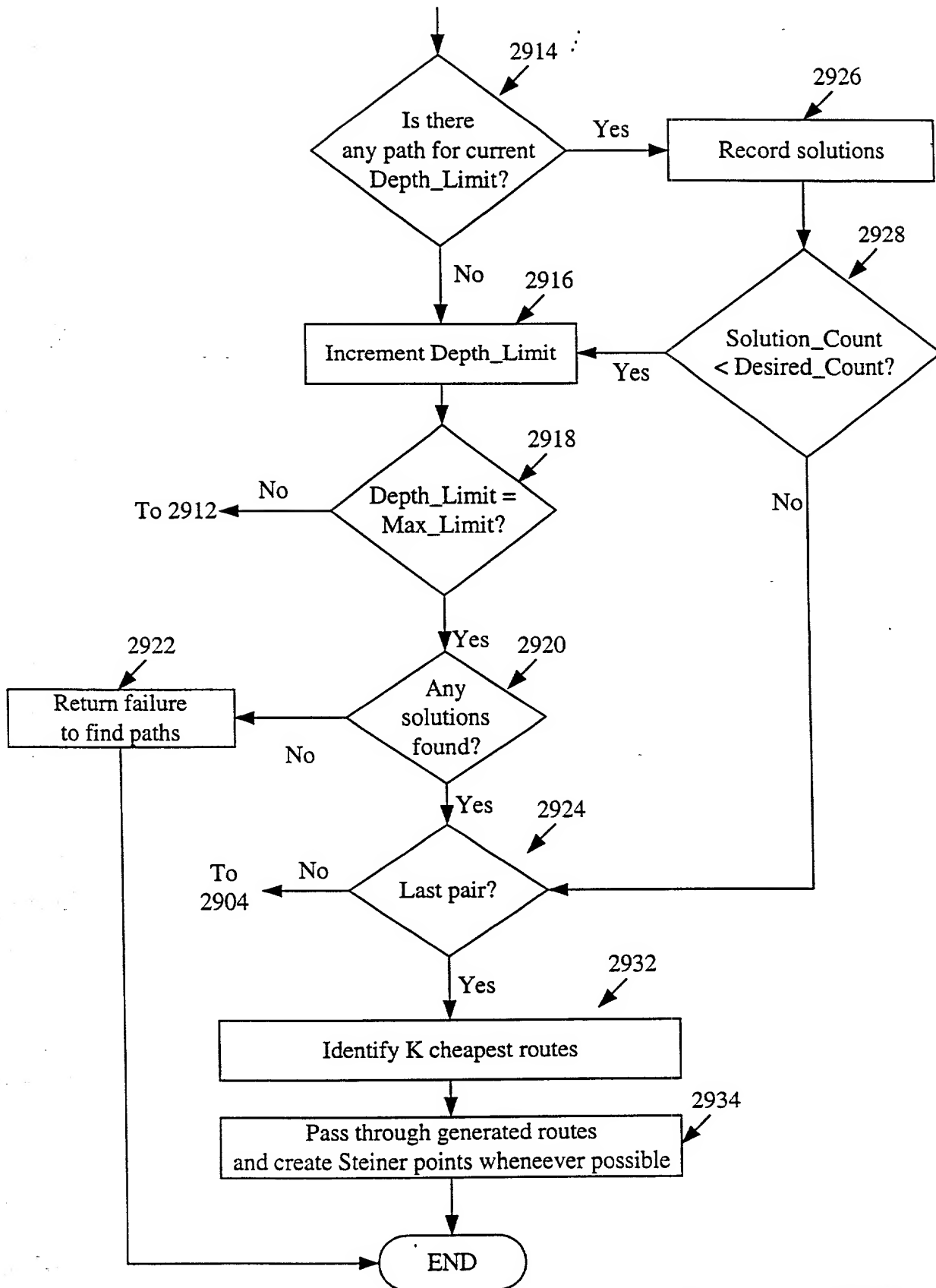


Figure 29B

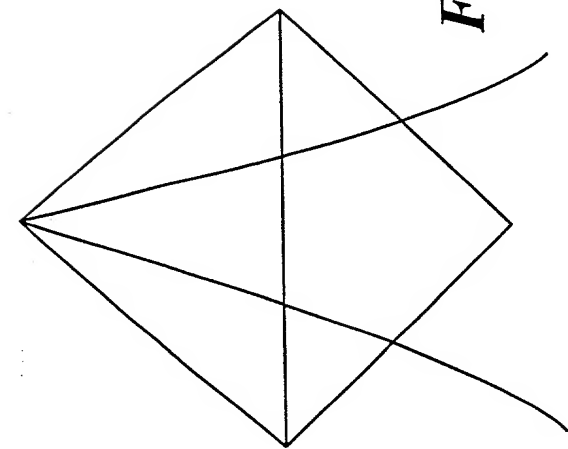


Figure 30A

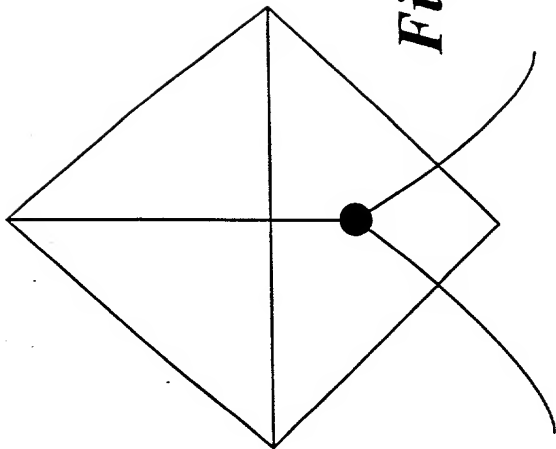


Figure 30B

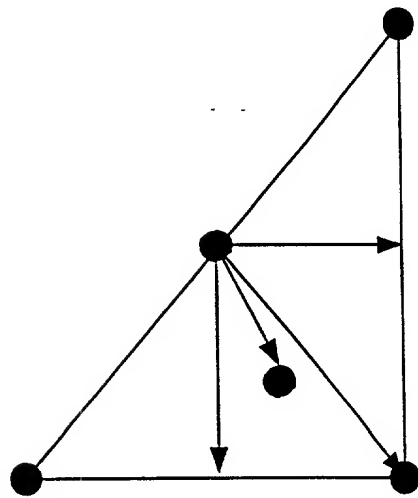


Figure 32

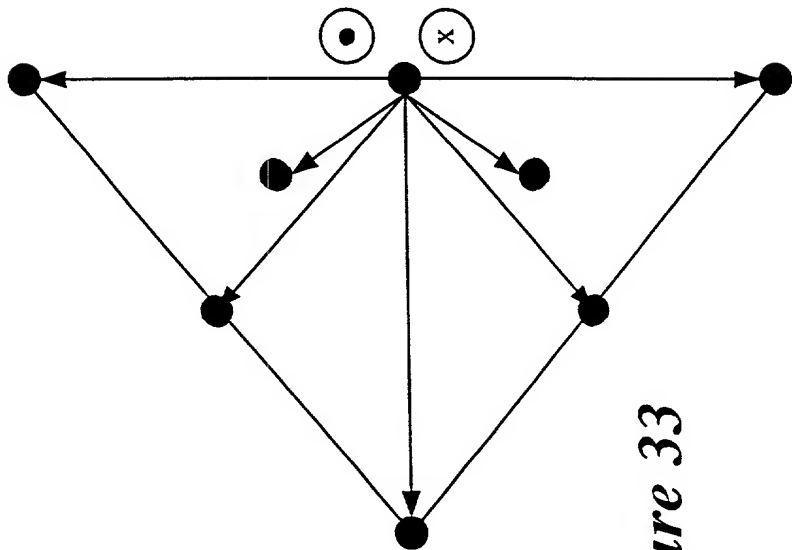


Figure 33

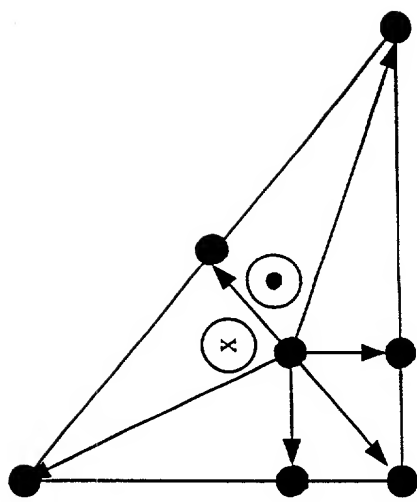


Figure 34

2015-09-01 10:06:06

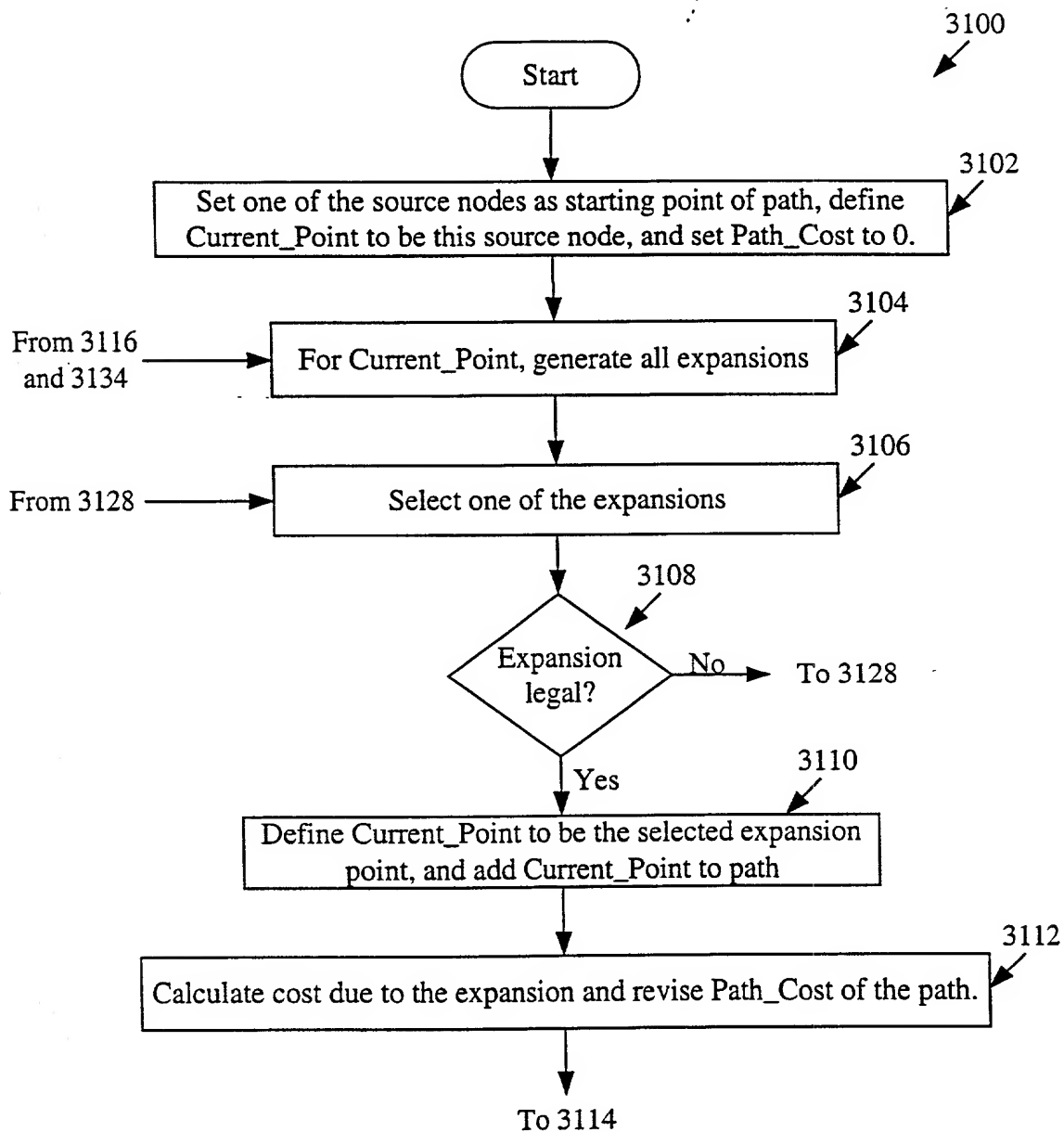


Figure 31A

Figure 31: $\frac{\text{Figure 31A}}{\text{Figure 31B}}$

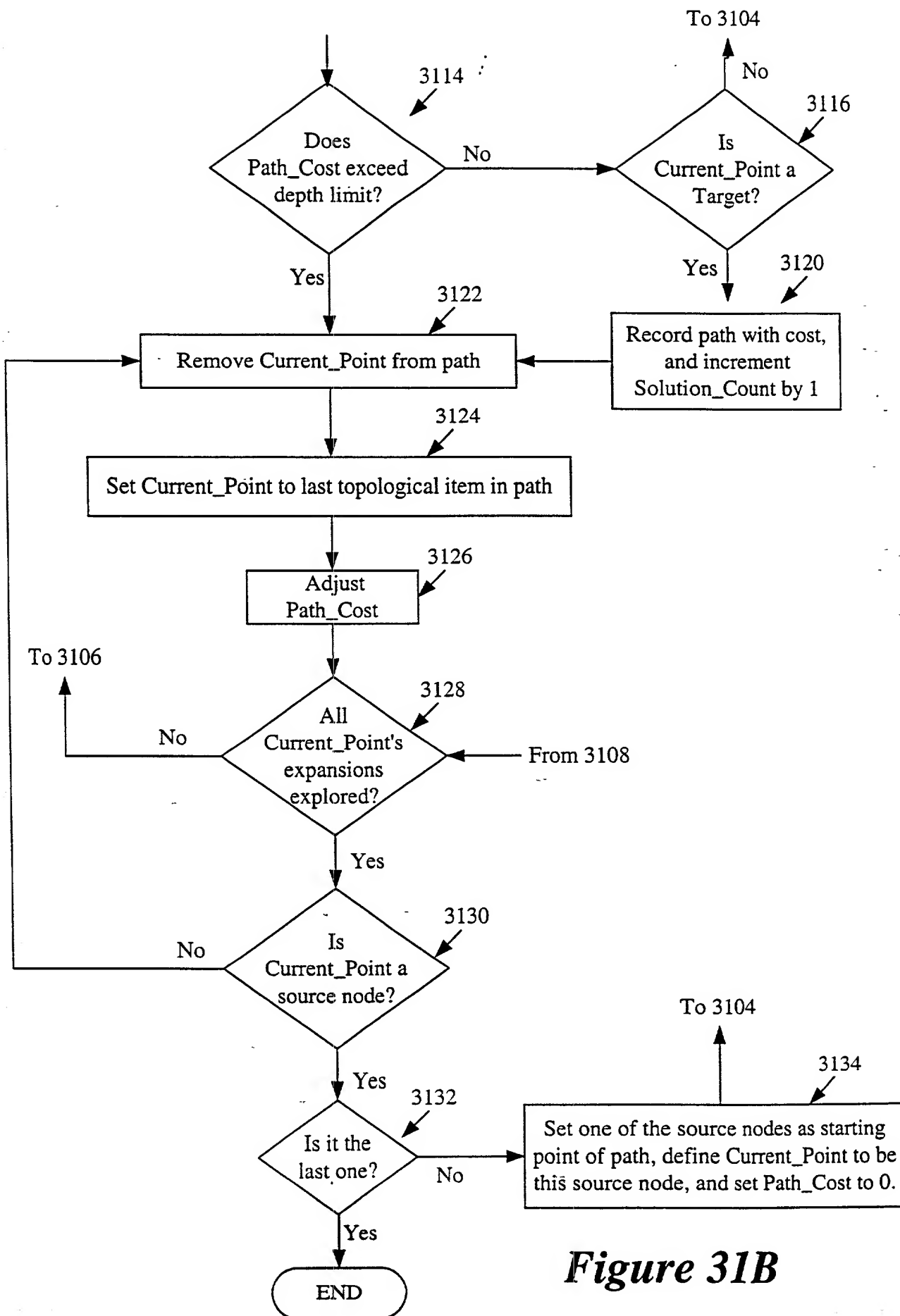


Figure 31B

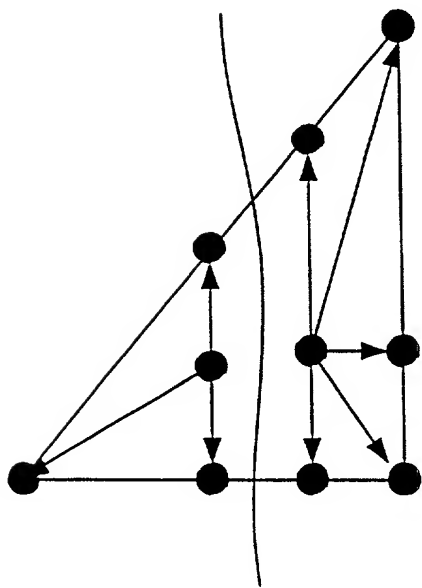


Figure 35

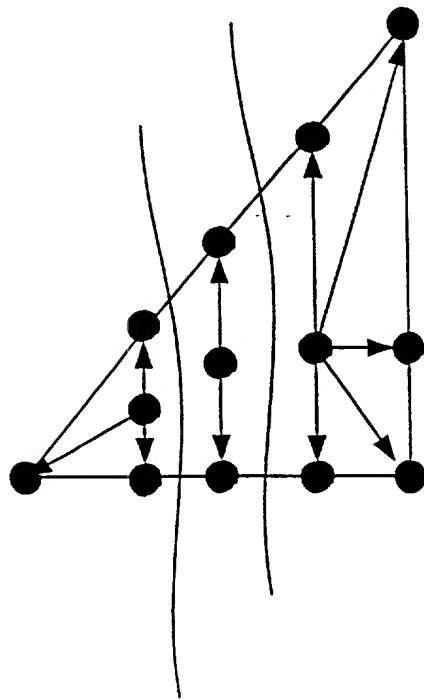


Figure 36

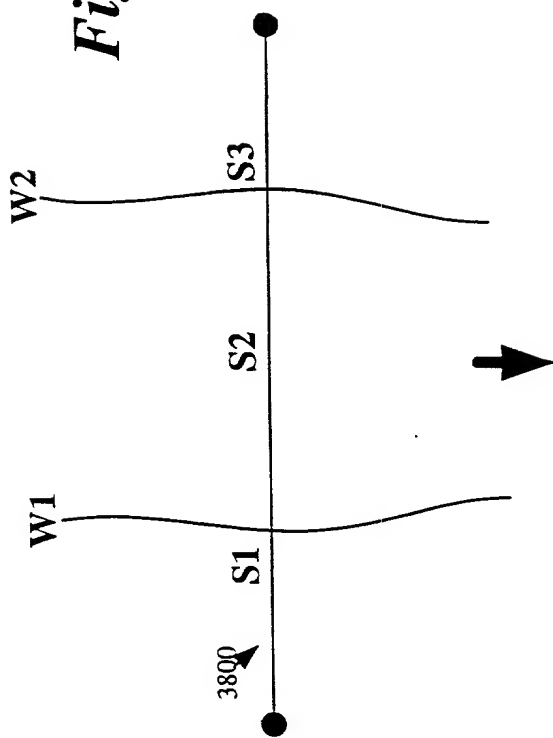


Figure 38A

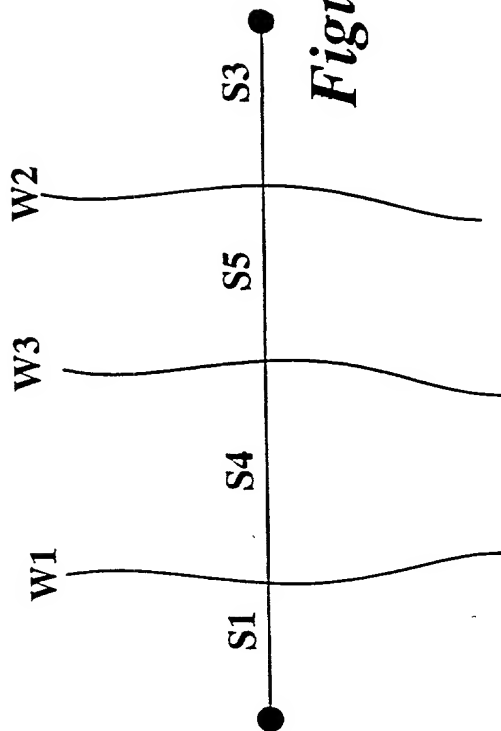


Figure 38B

To:		Node	Face Item	Edge Item
From:	Node	<ul style="list-style-type: none"> • Planarity • Vias 	<ul style="list-style-type: none"> • Vias 	<ul style="list-style-type: none"> • Planarity • Vias • Edge • Capacity
	Face Item	<ul style="list-style-type: none"> • Vias 	<ul style="list-style-type: none"> • Vias 	<ul style="list-style-type: none"> • Vias • Edge • Capacity
	Edge Item	<ul style="list-style-type: none"> • Planarity • Vias 	<ul style="list-style-type: none"> • Vias 	<ul style="list-style-type: none"> • Planarity • Vias • Edge • Capacity

Figure 37

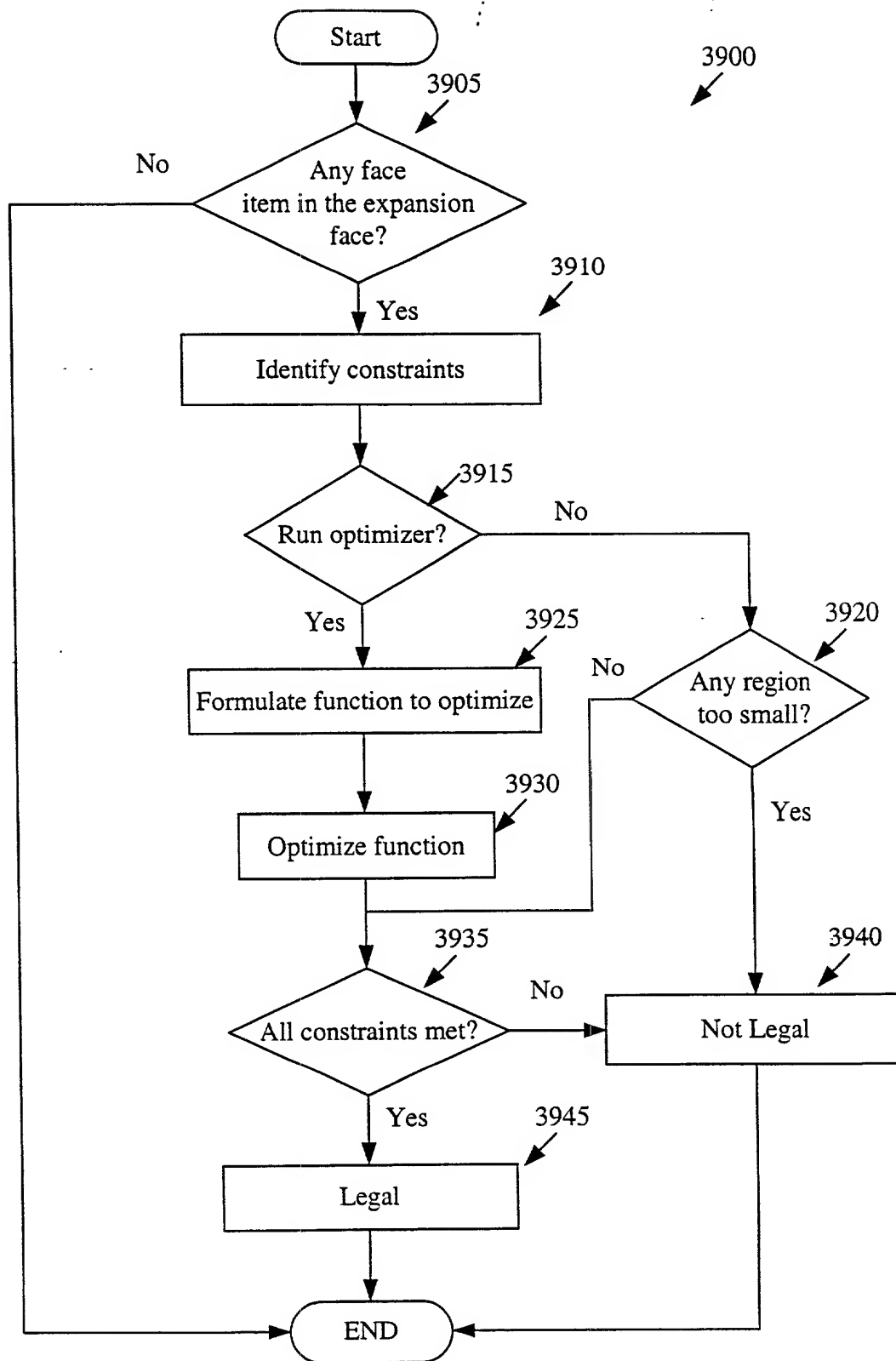


Figure 39A

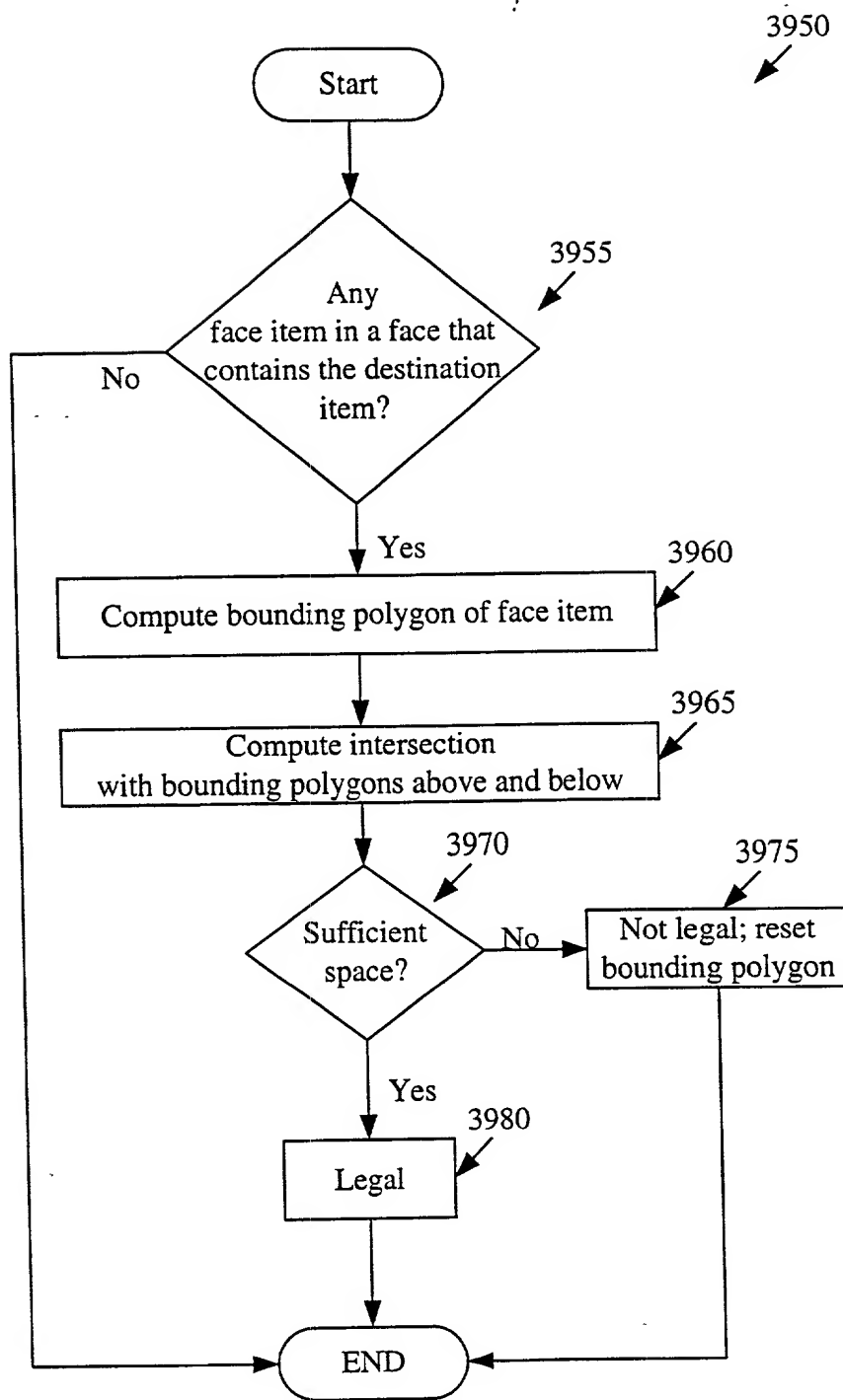


Figure 39B

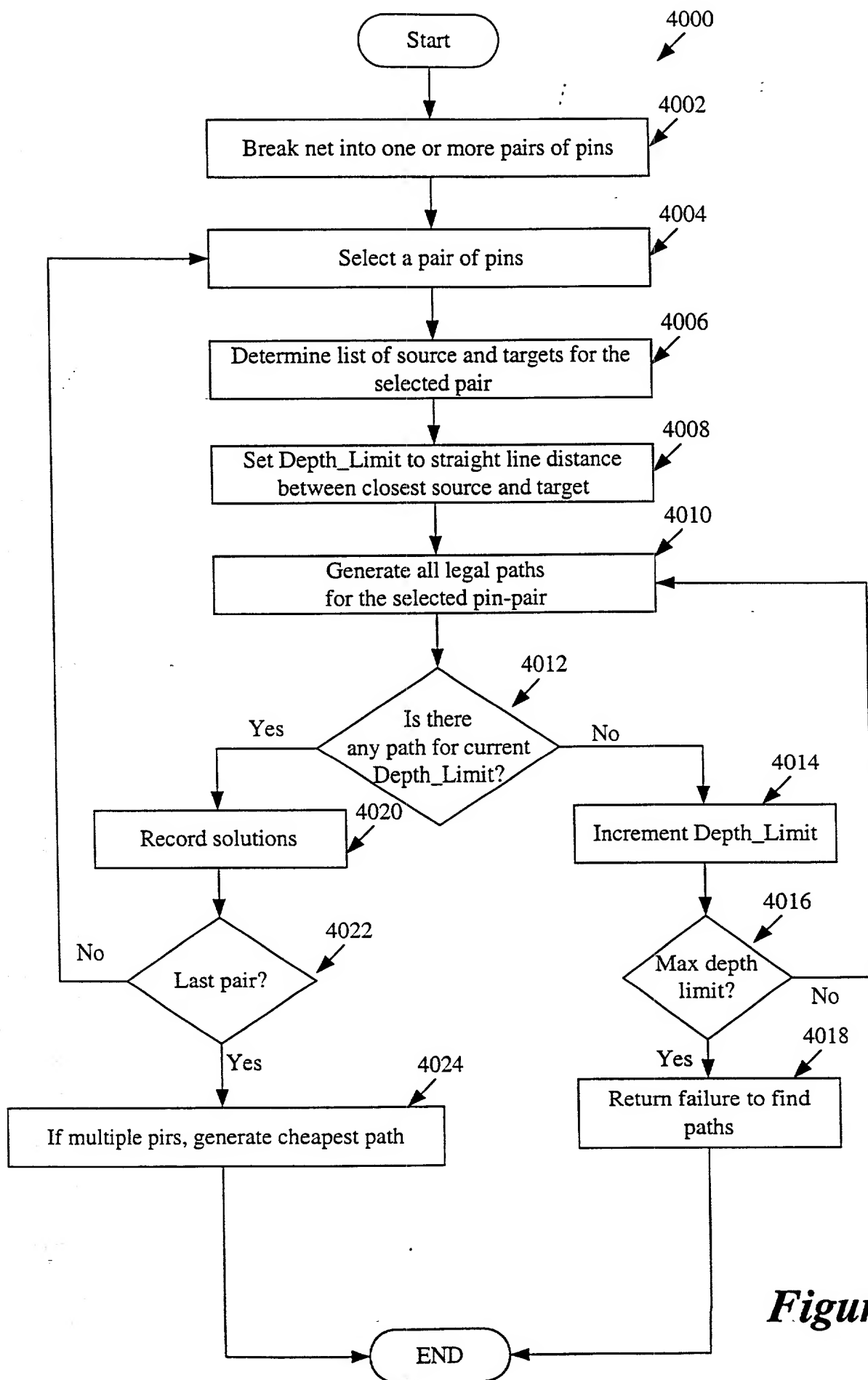


Figure 40

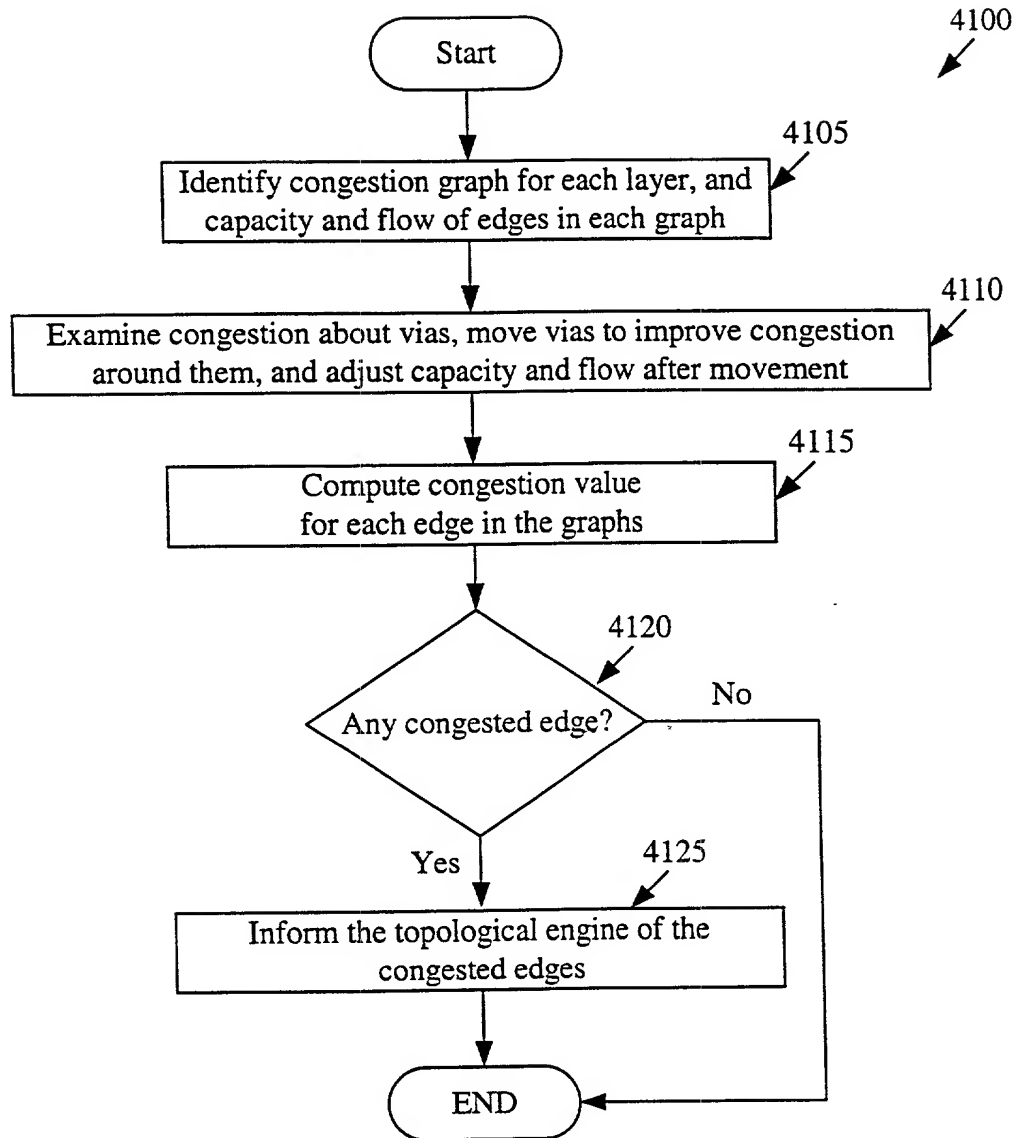


Figure 41

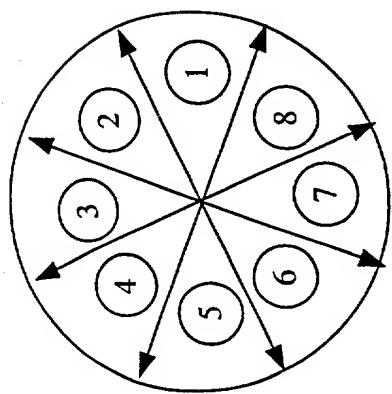


Figure 42

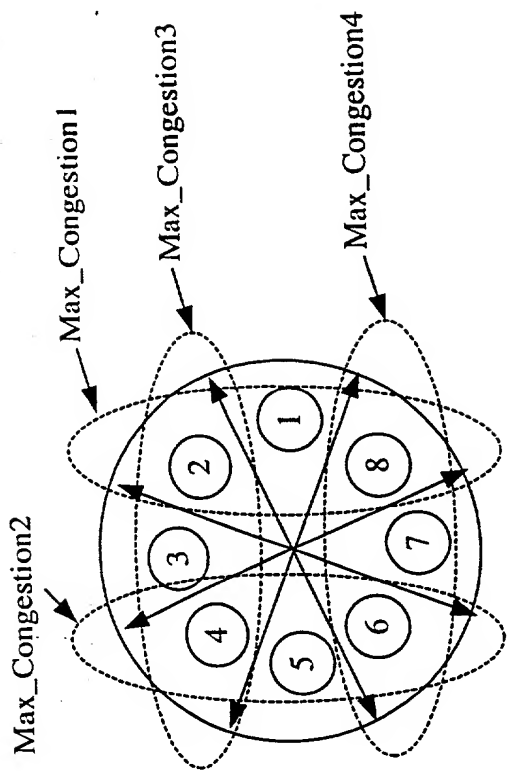


Figure 44

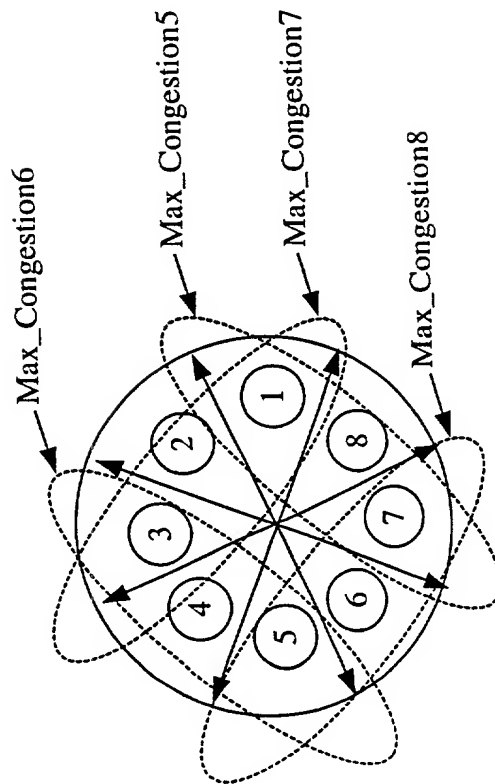


Figure 45

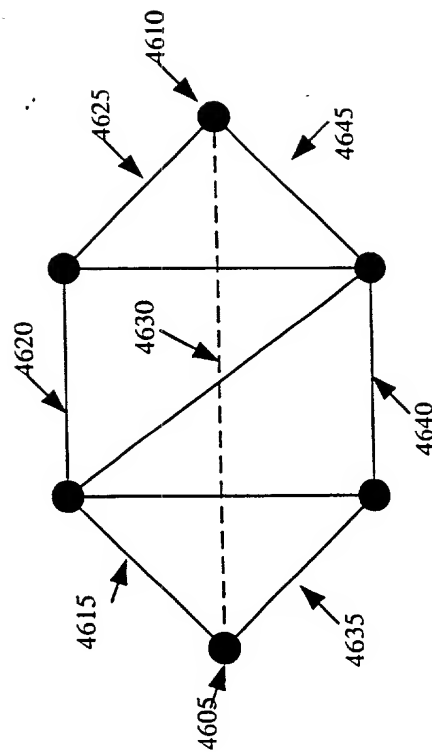


Figure 46

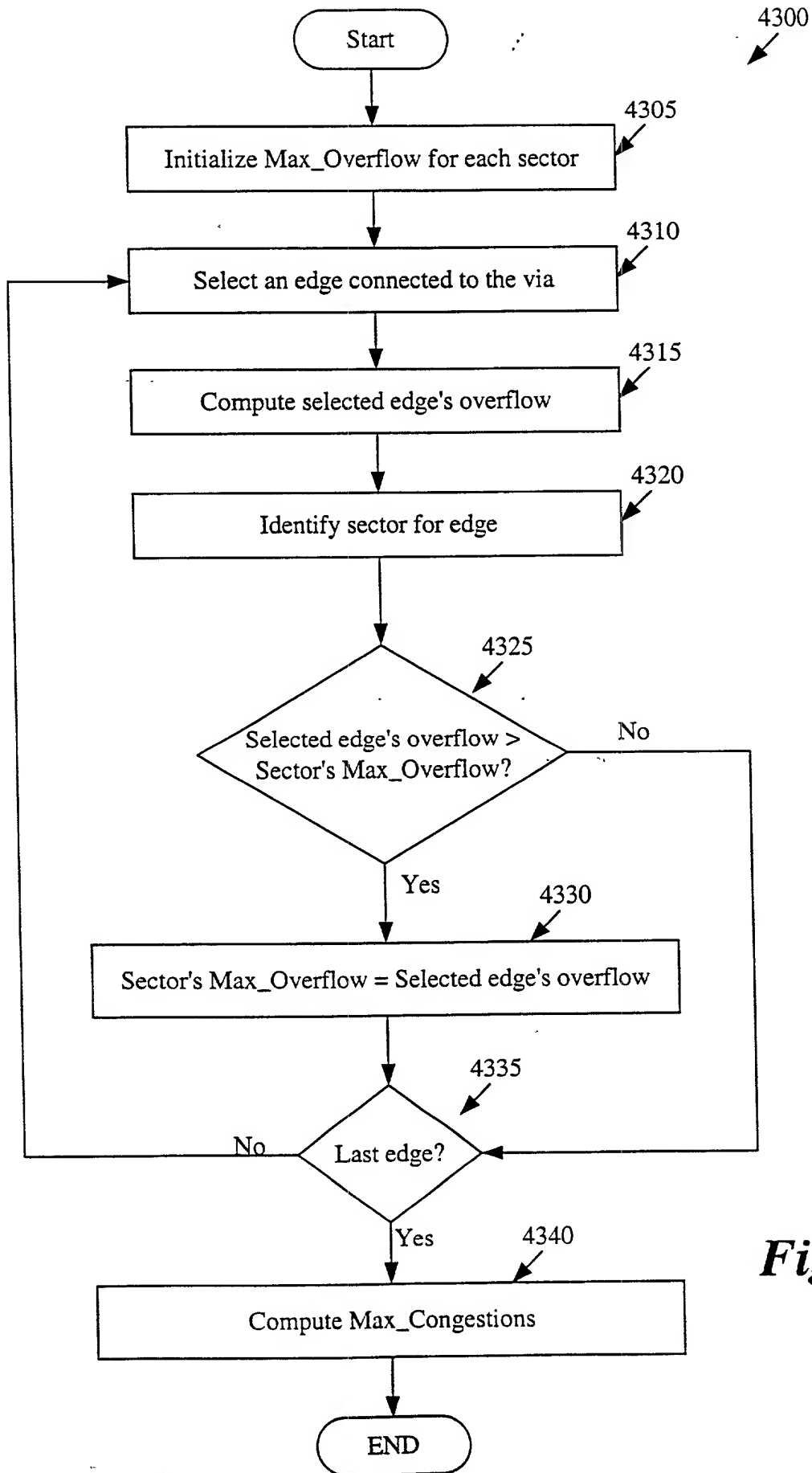


Figure 43

20150101 090500T

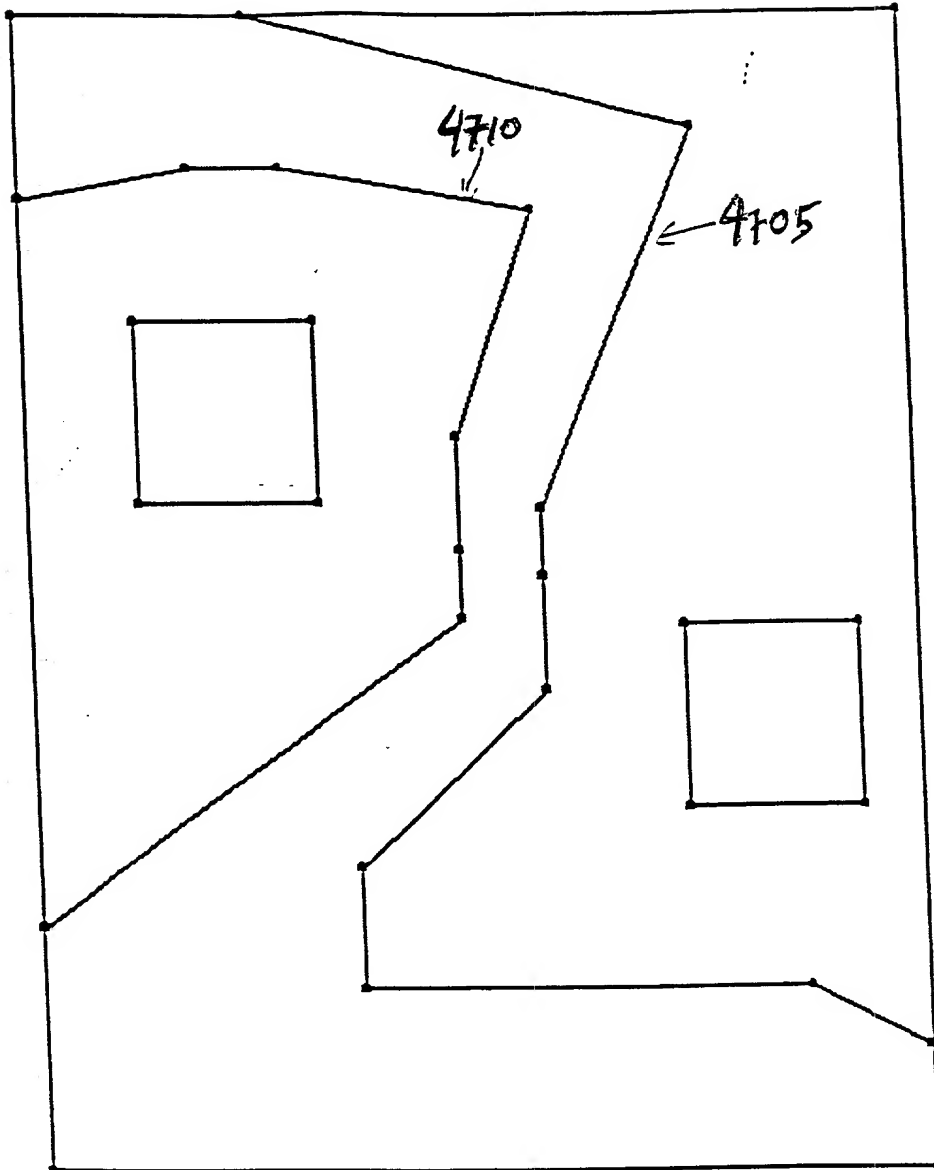


FIGURE 47

2017-09-09 10:00:00

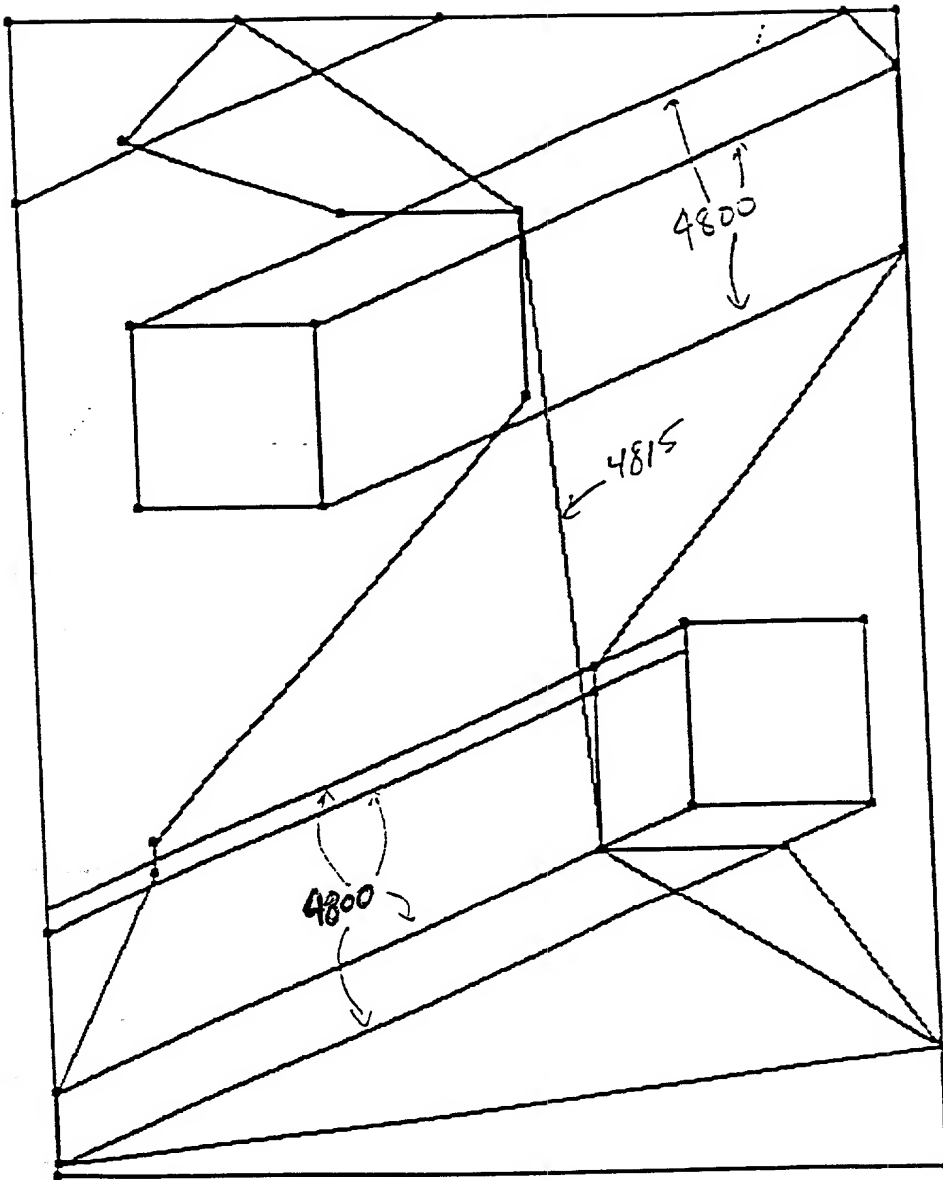


FIGURE 48A

2015-09-09 10:05:00

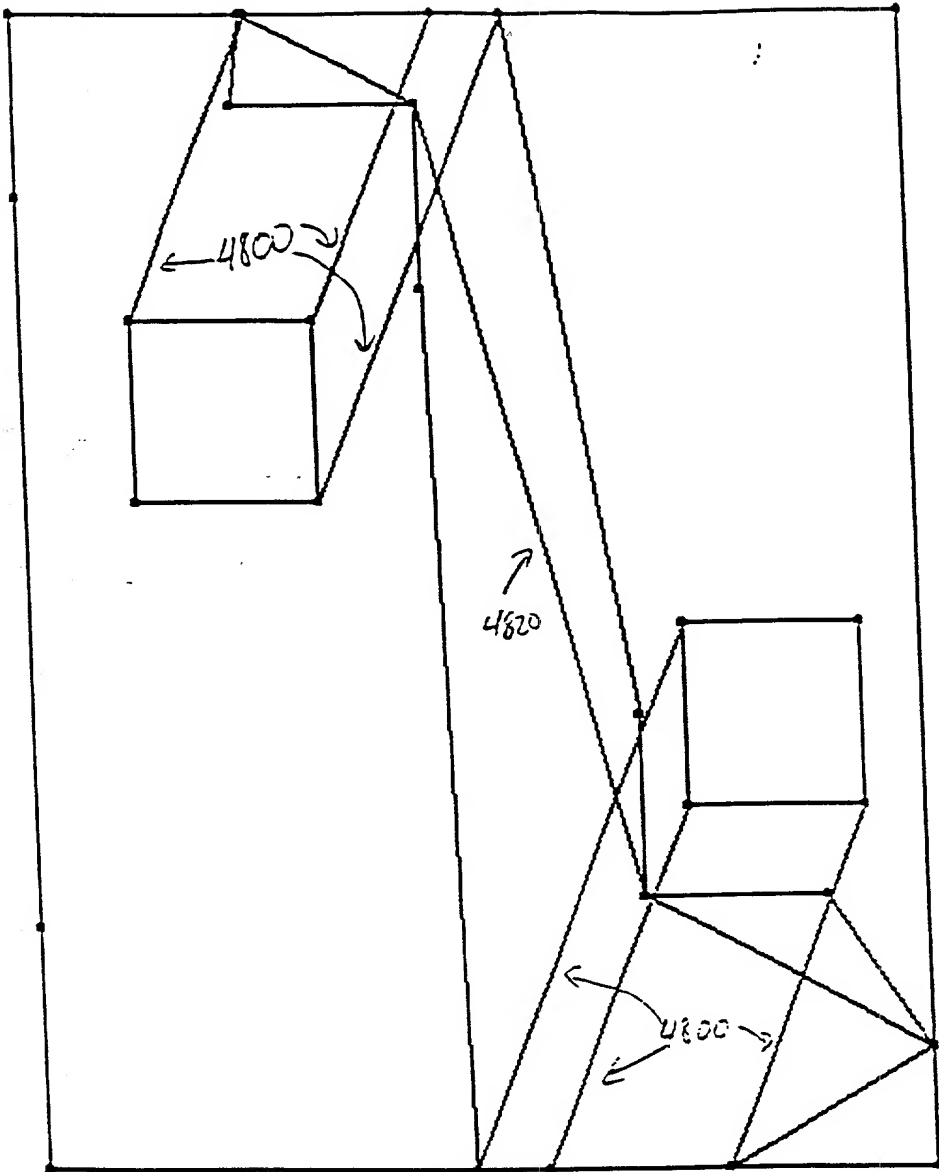


FIGURE 48B

207ETD 0909900T

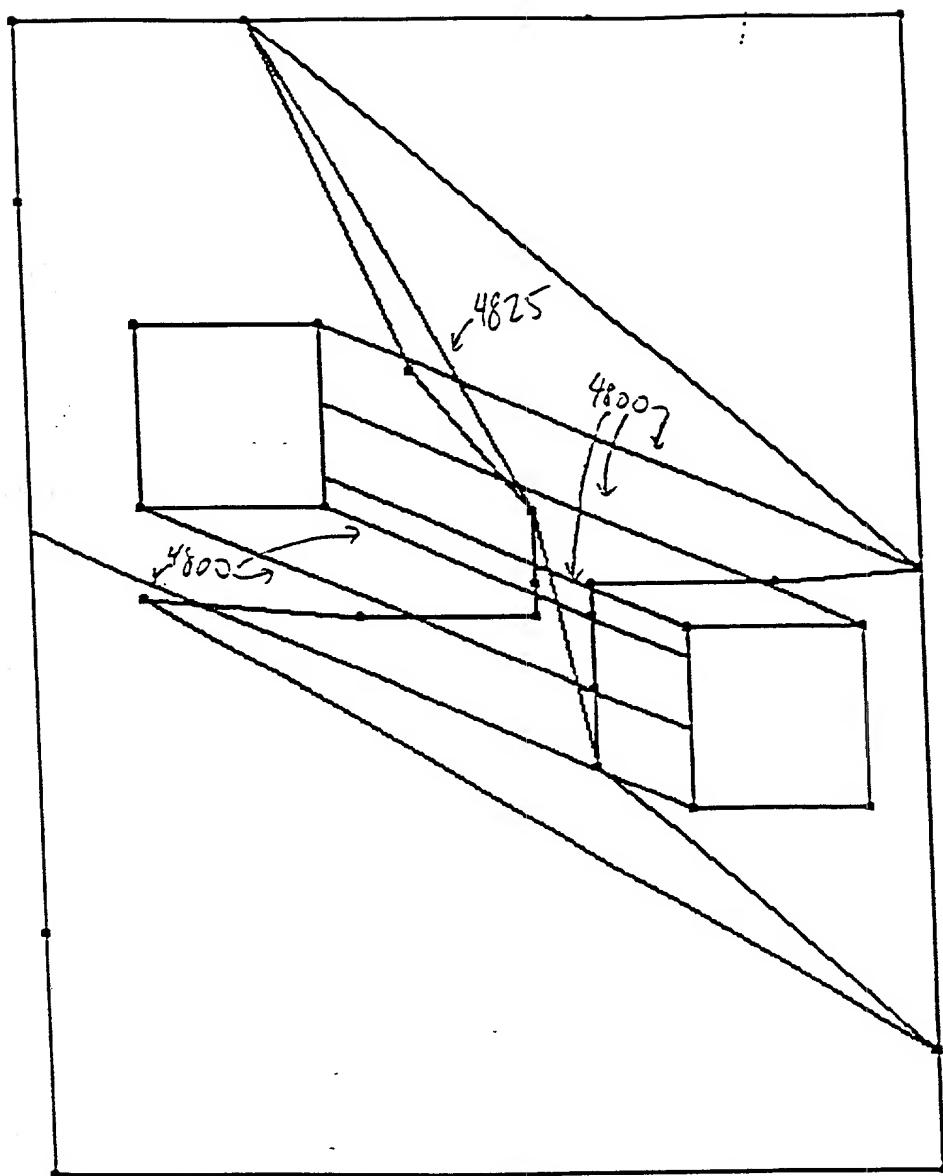


FIGURE 48C

2025-09-09 10:05:05

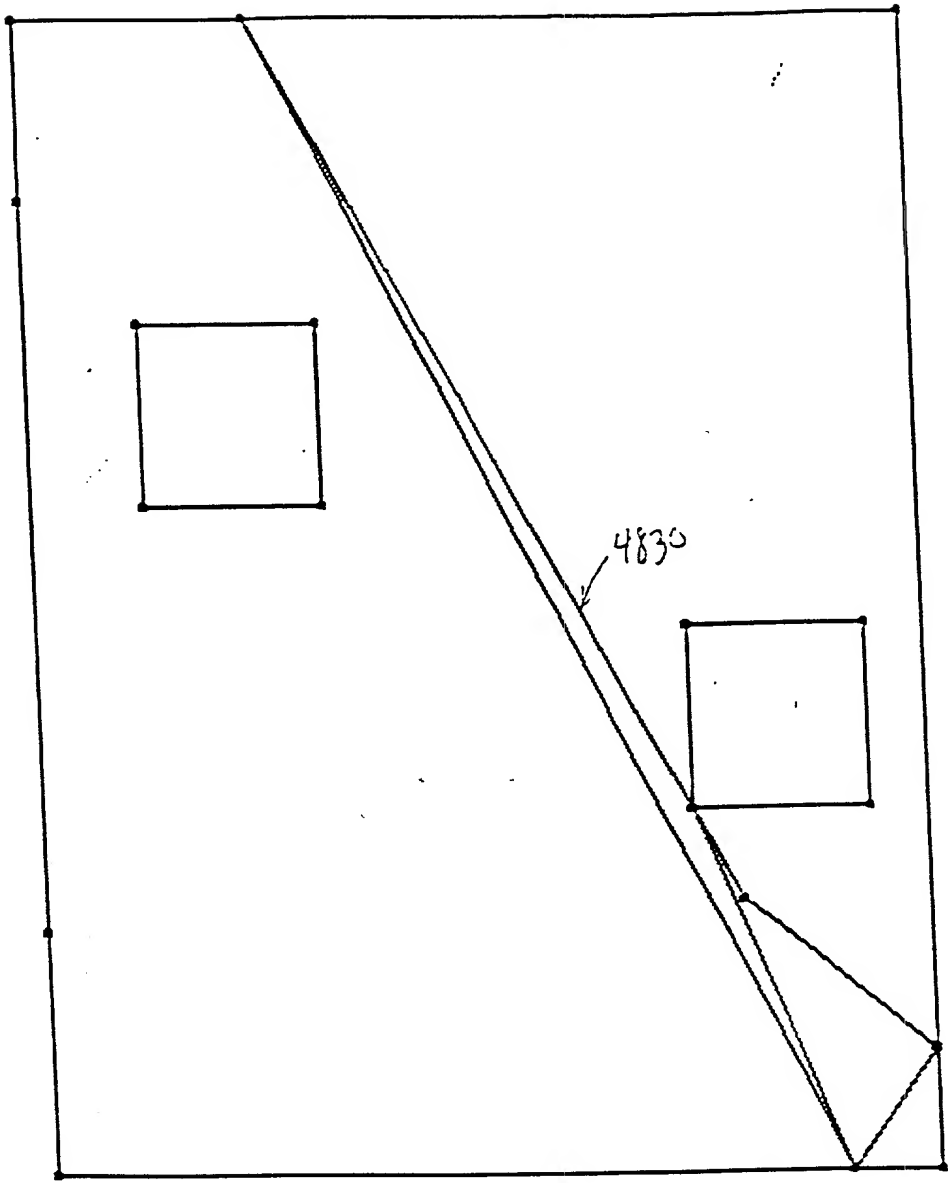


FIGURE 48D

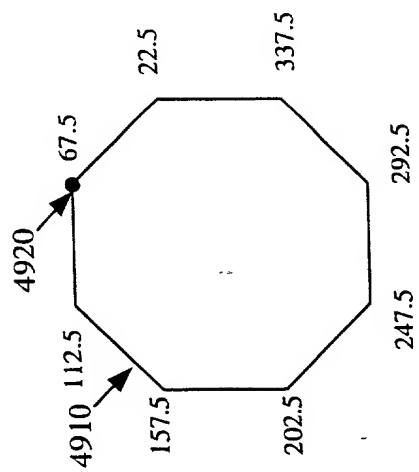


Figure 49A

Figure 49B

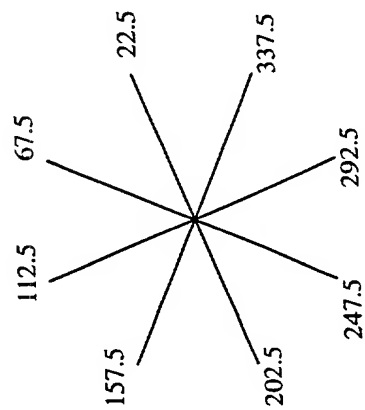
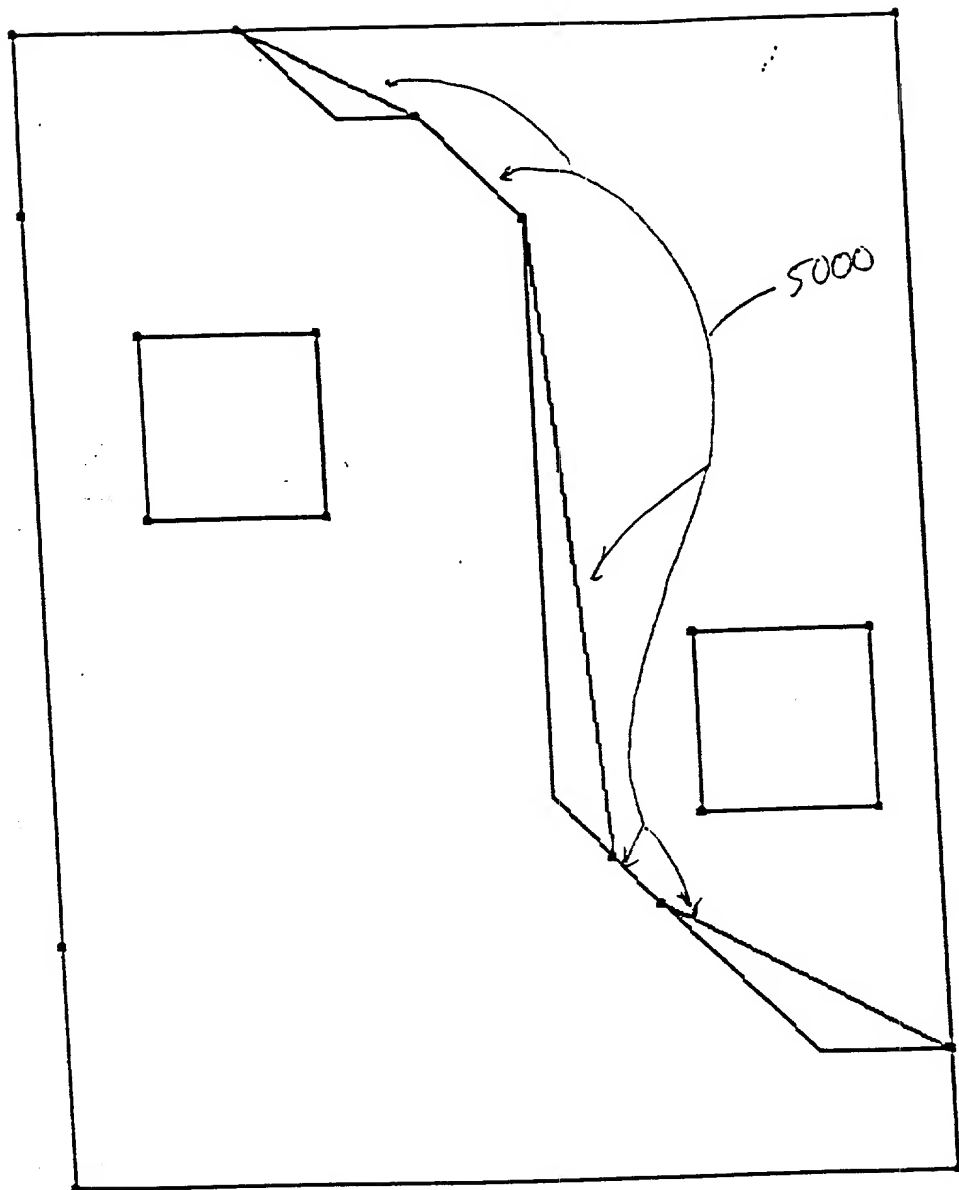


Figure 49C

FIGURE 50



2016-09-09 09:00

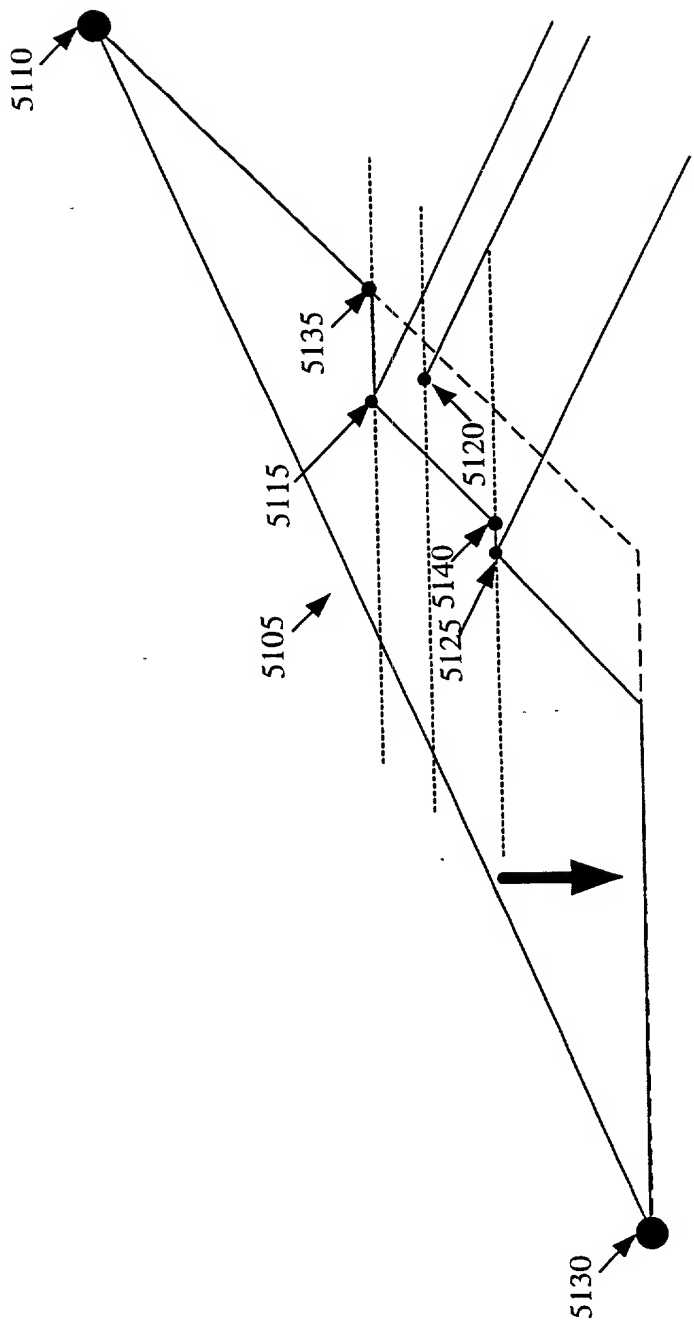


Figure 51

10050500.034102

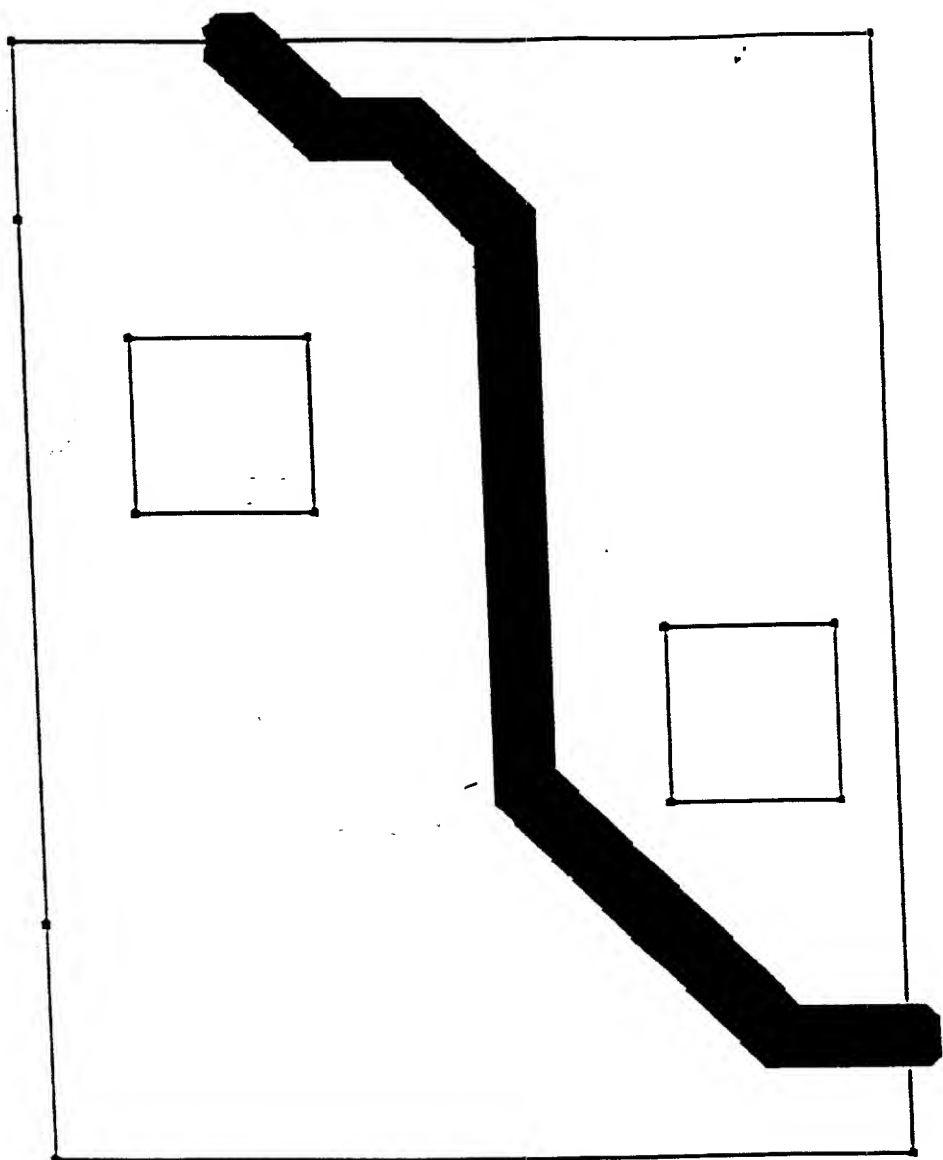


FIGURE 52

2016010909900T

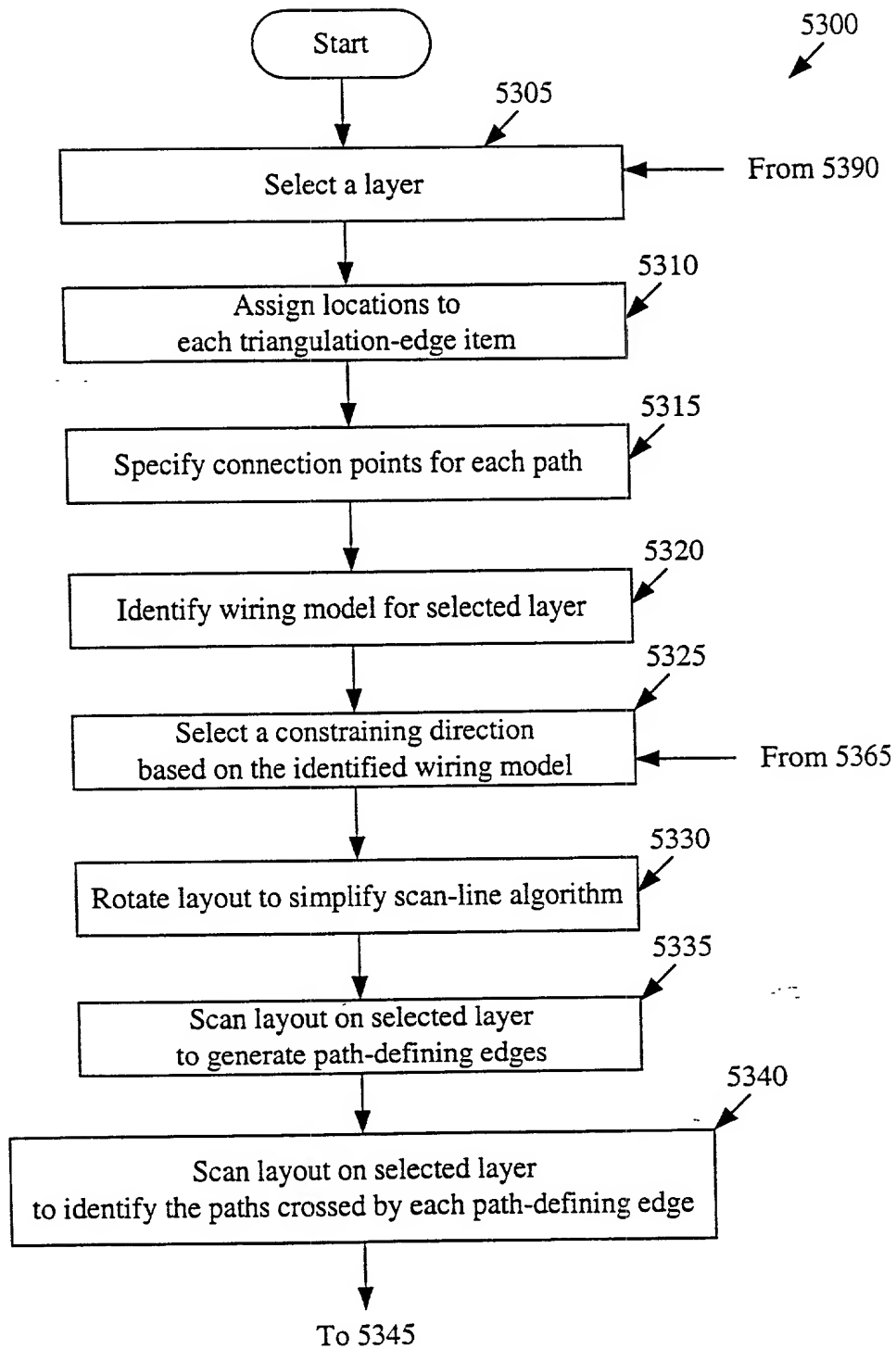


Figure 53

Figure 53: Figure 53A
Figure 53B

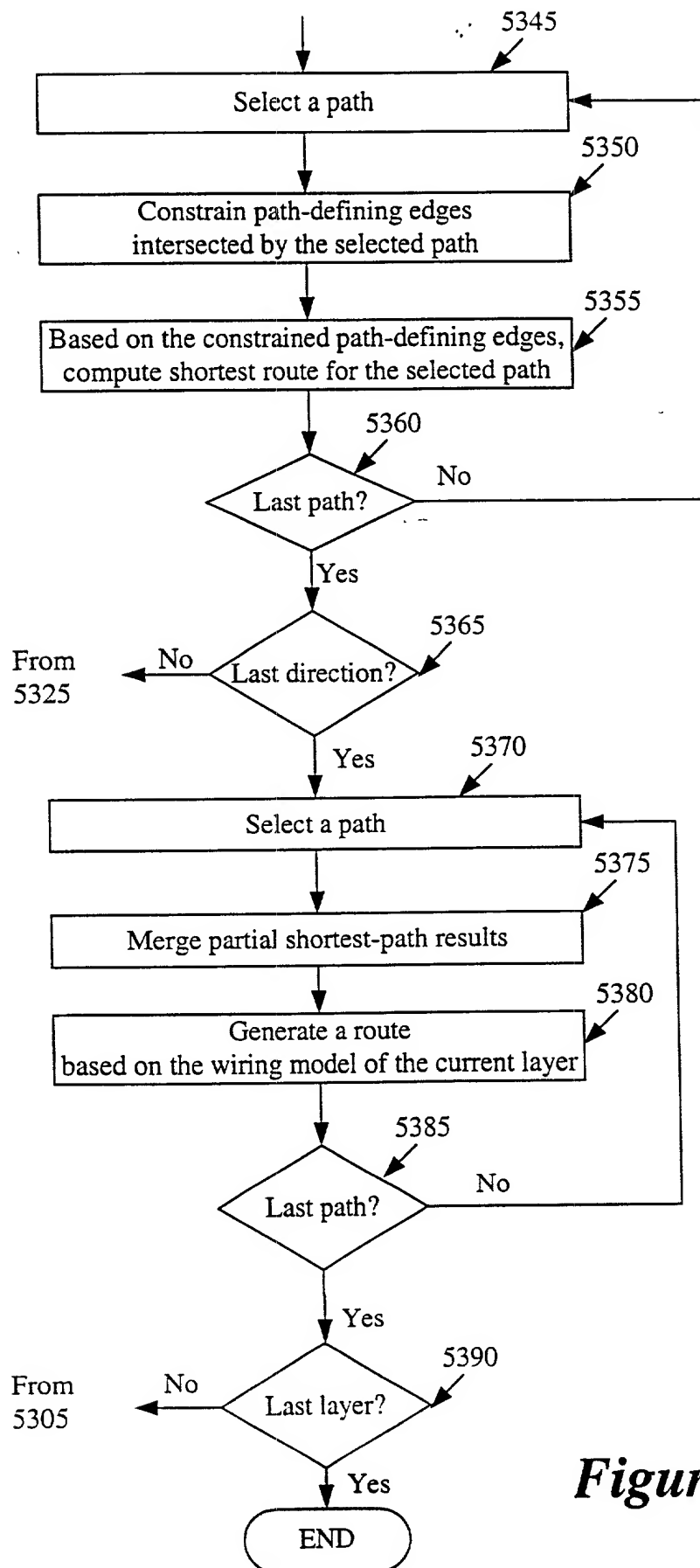


Figure 53B

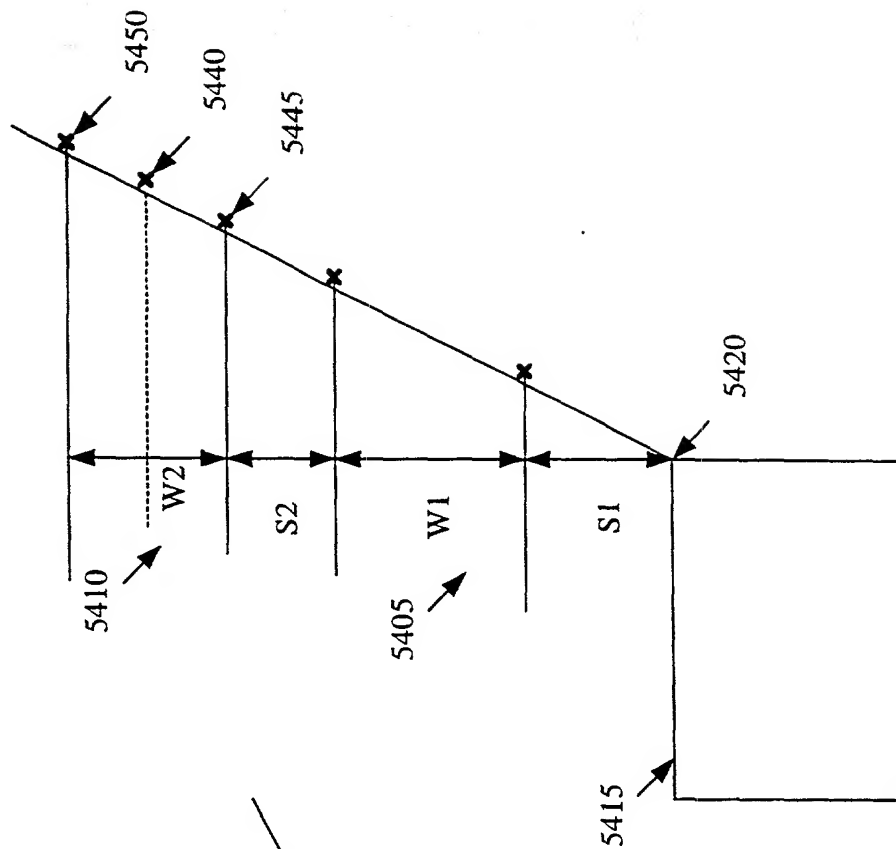


Figure 55

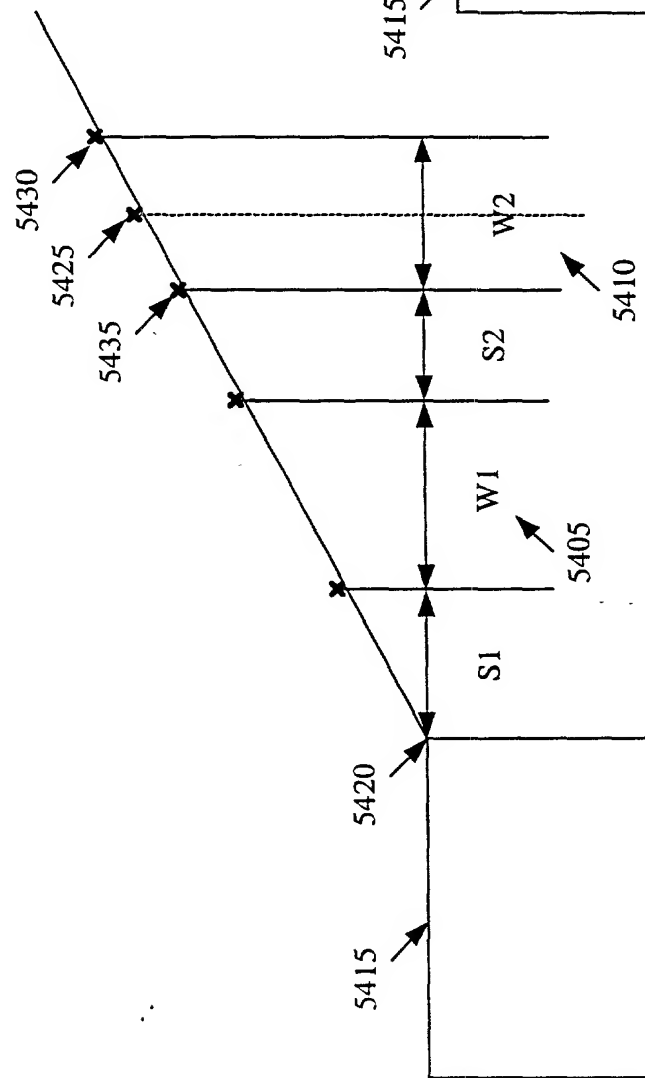


Figure 54

1. The first part of the document is a letter from the President of the United States to the Congress, dated January 1, 1861. It is a formal address, and it begins with the words "I have the honor to acknowledge the receipt of your letter of the 29th inst. and in reply to inform you that the same has been forwarded to the proper authorities for their consideration." The letter then goes on to discuss the state of the Union and the President's policy towards the South.

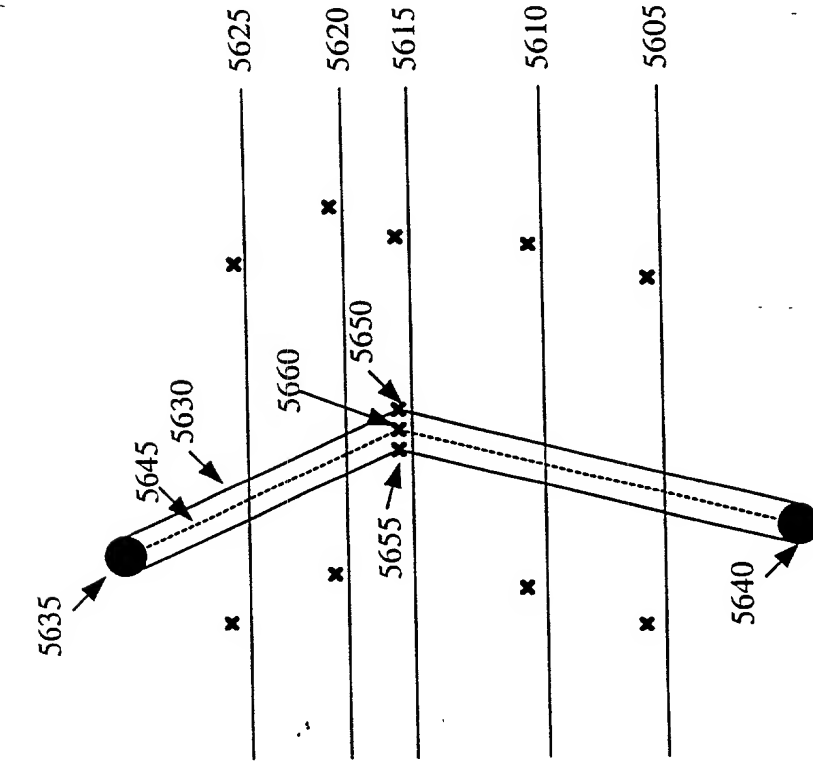


Figure 56

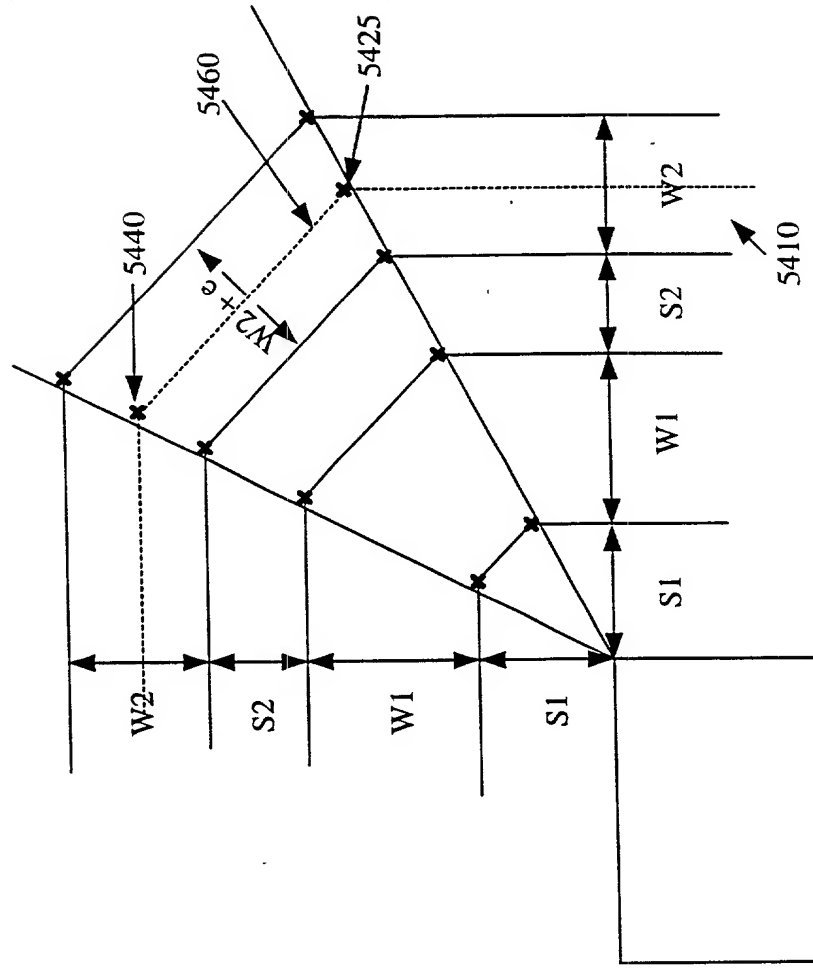


Figure 57

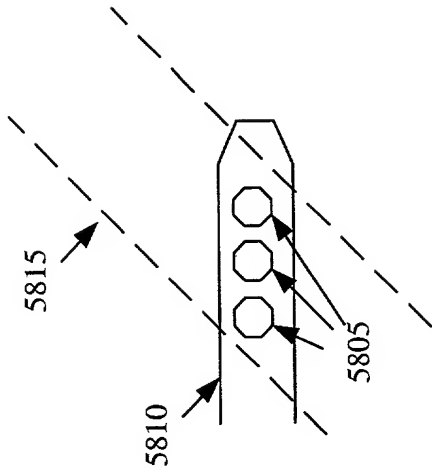


Figure 58

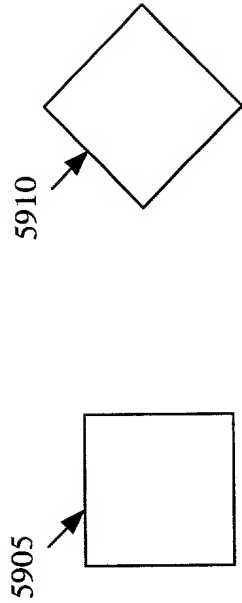


Figure 59

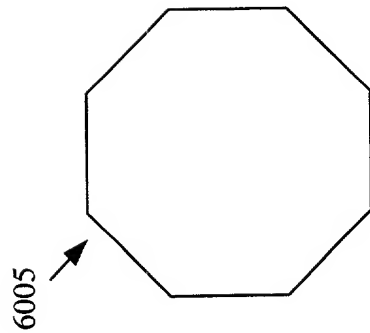


Figure 60

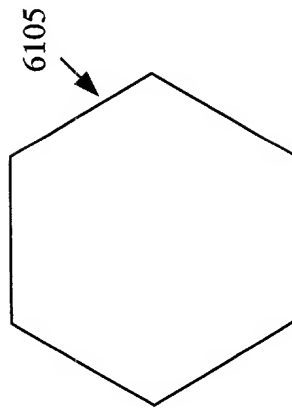


Figure 61

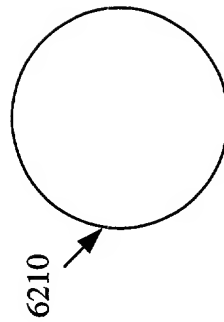


Figure 62

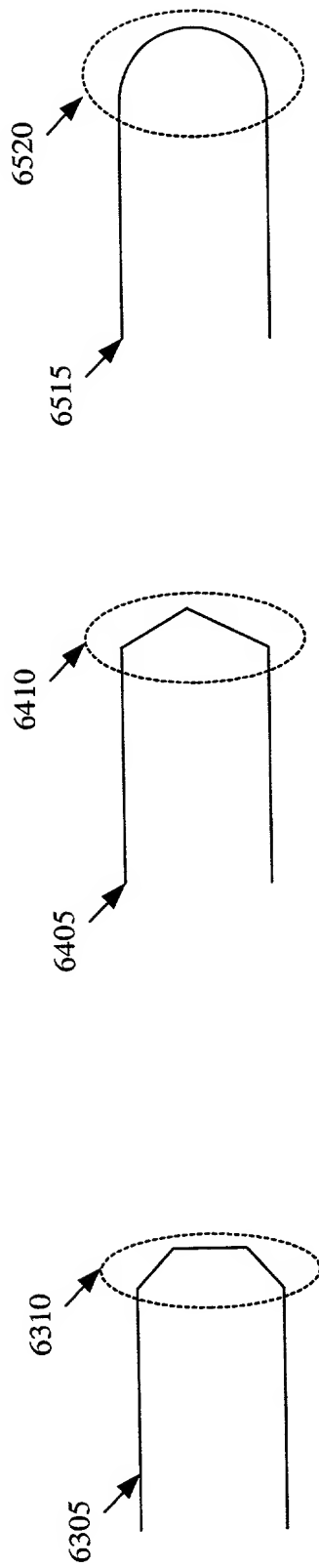


Figure 63

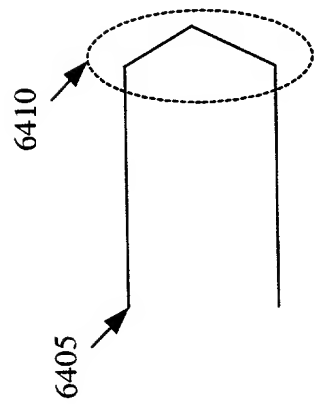


Figure 64

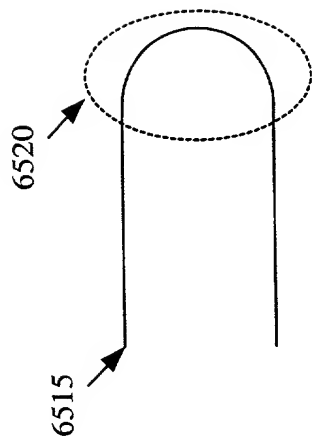
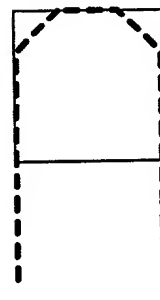
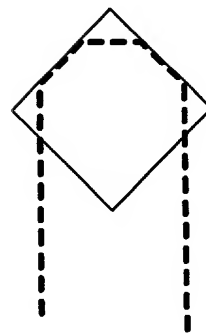


Figure 65

(1)



(2)



(3)

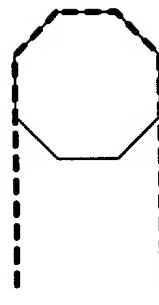
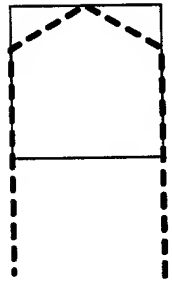


Figure 66

(1)



(2)

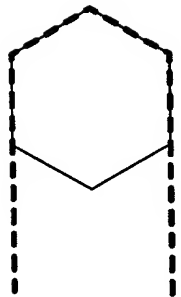


Figure 67

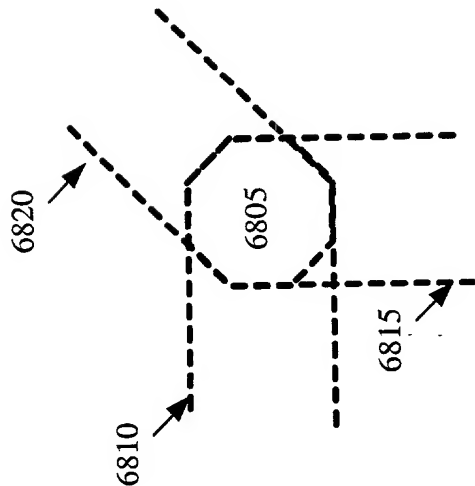


Figure 68

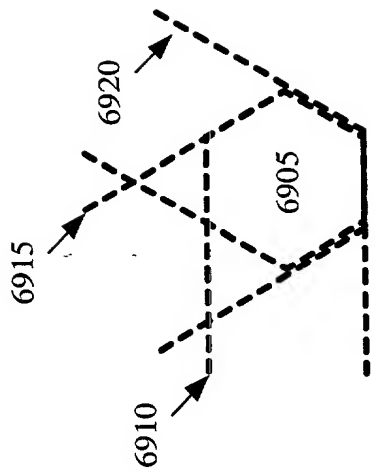


Figure 69

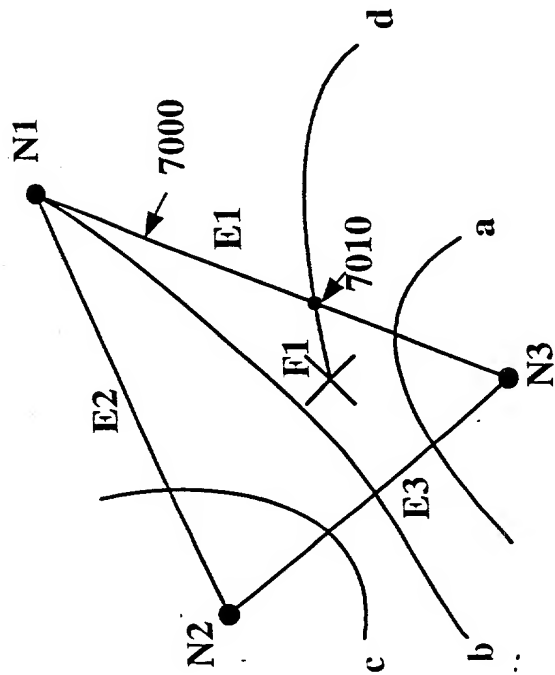


Figure 70

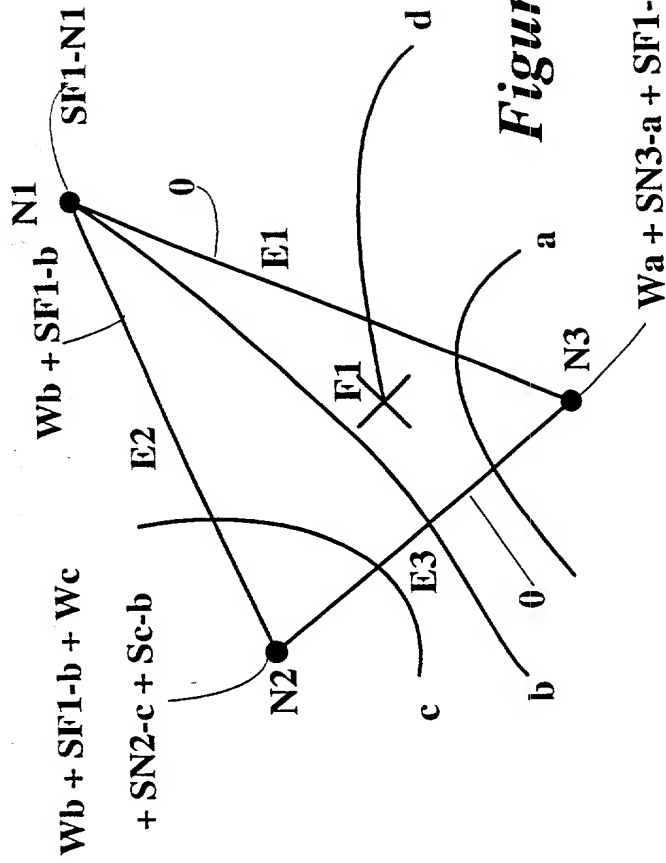


Figure 71

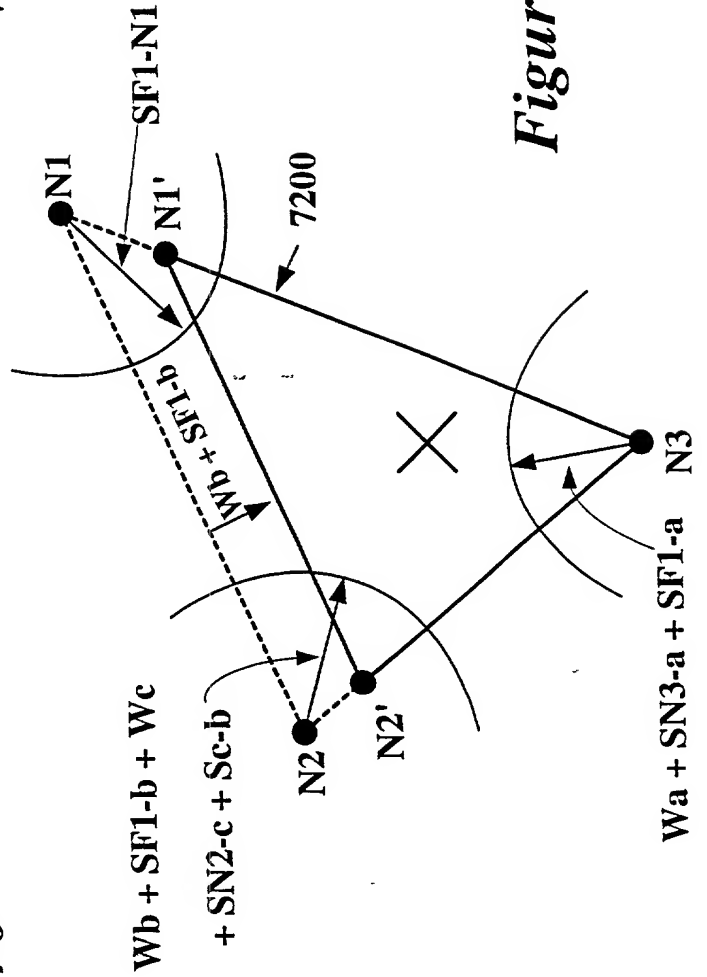


Figure 72

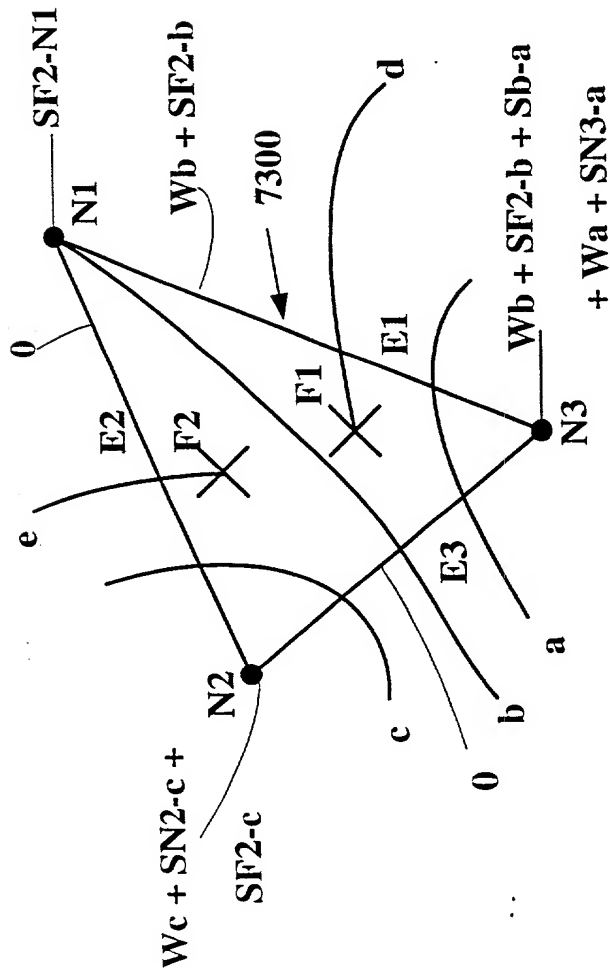


Figure 73

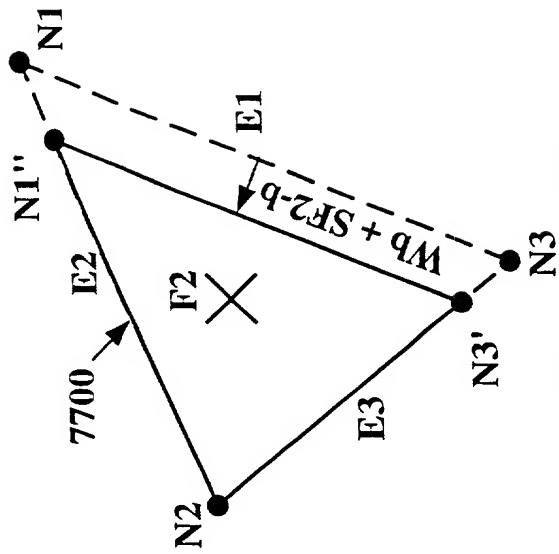


Figure 77

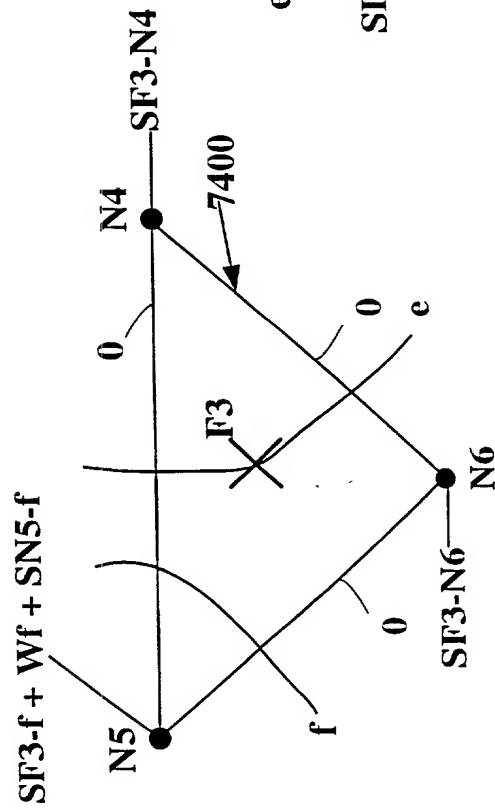


Figure 74

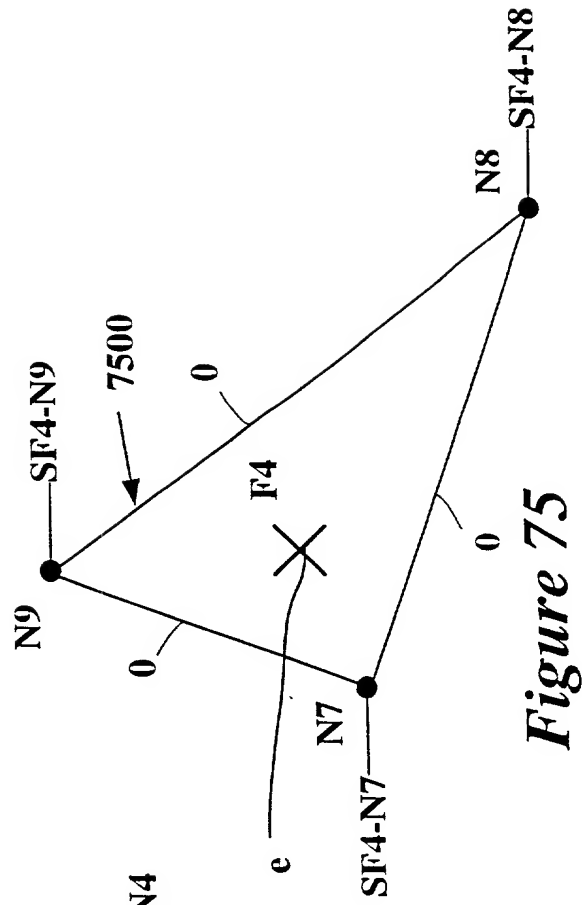


Figure 75

12
 11
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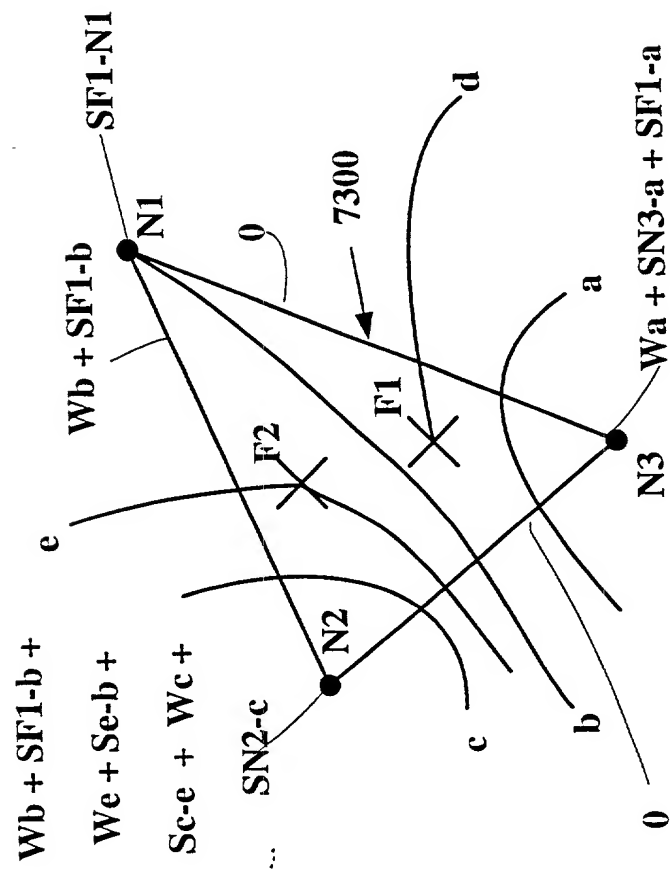


Figure 76

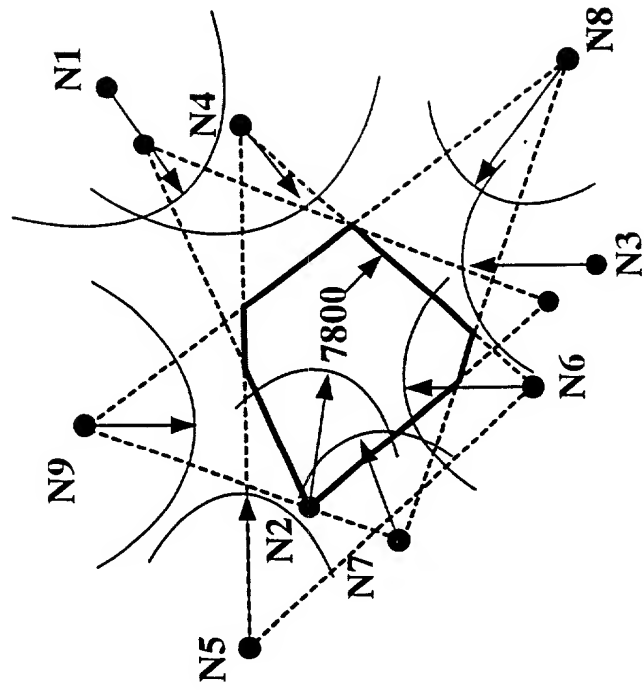


Figure 78

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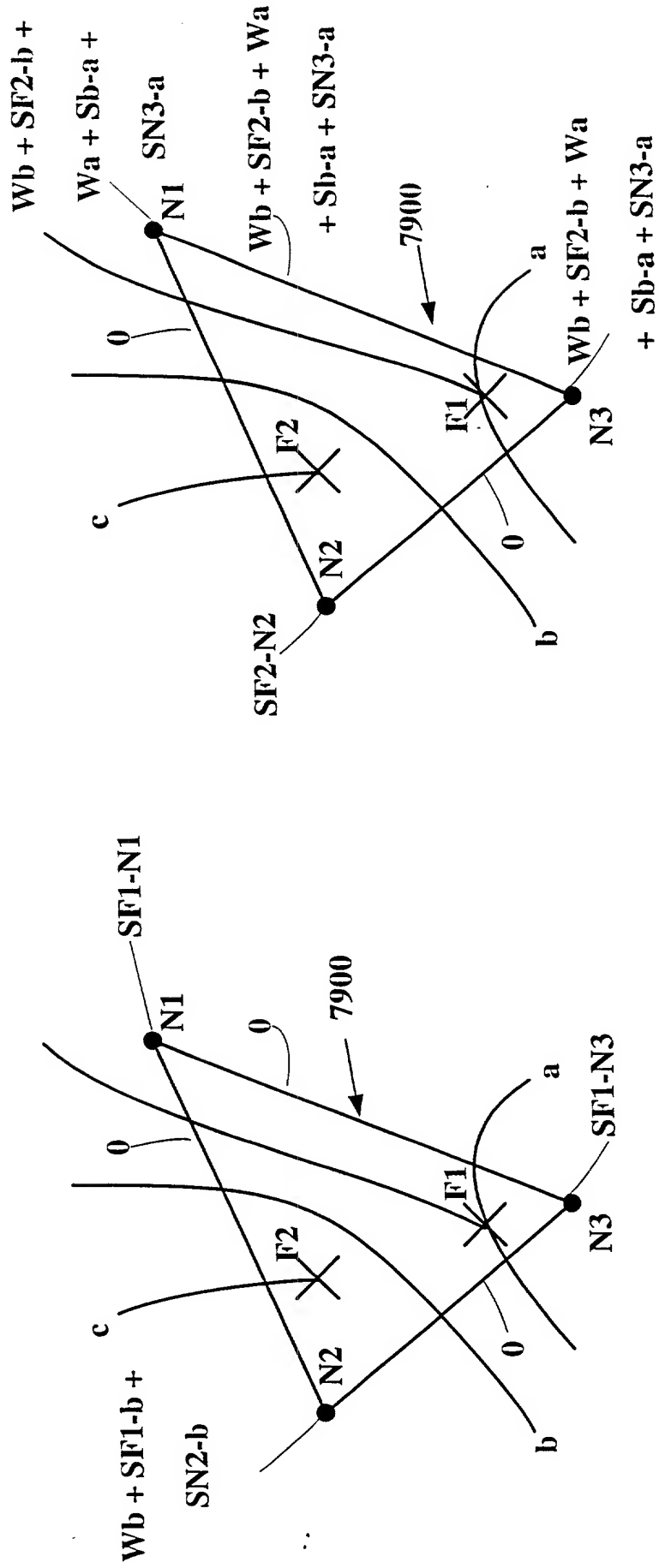


Figure 79

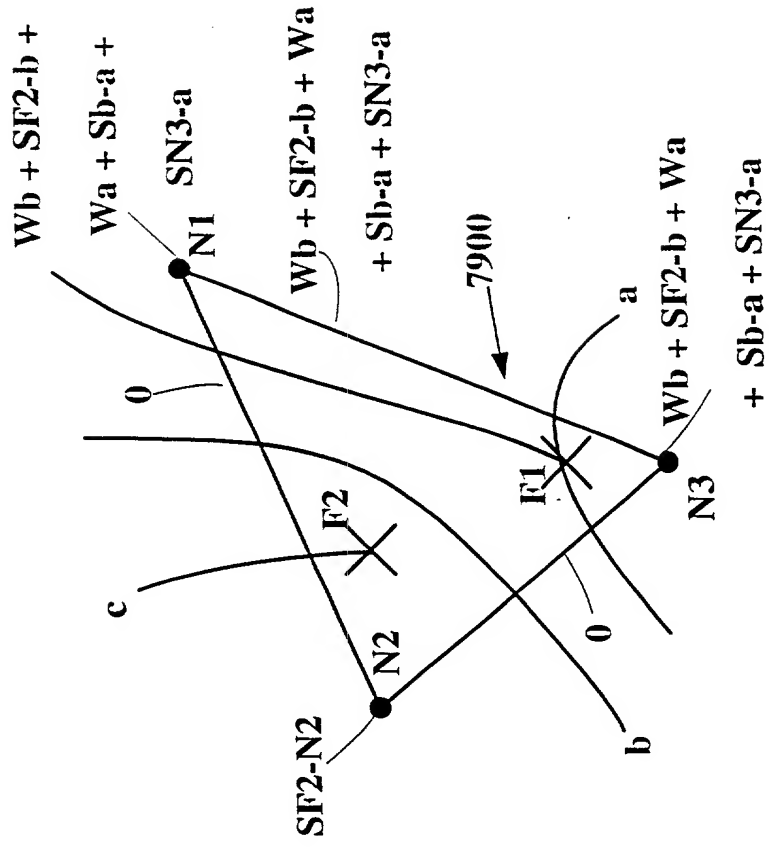


Figure 80

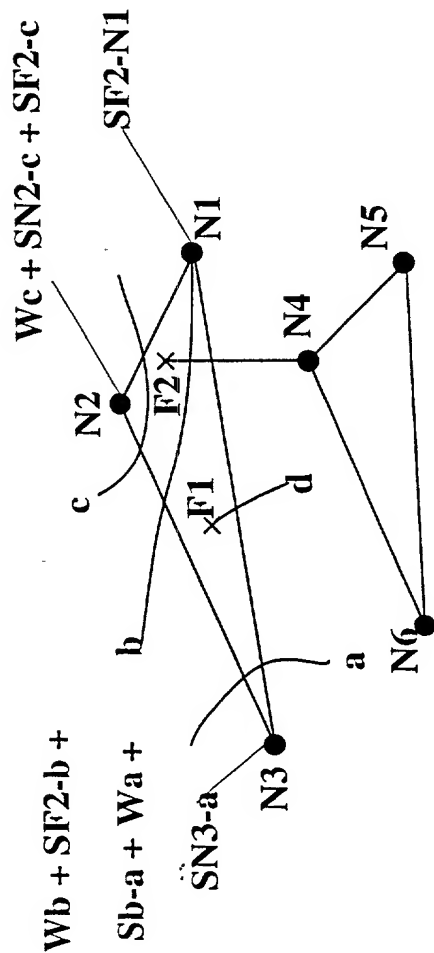


Figure 81

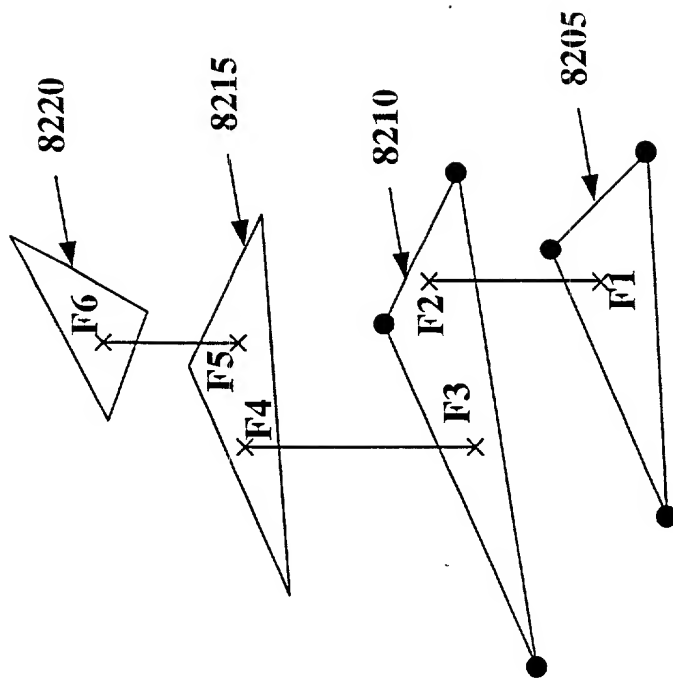


Figure 82

2016-09-09 09:00:00

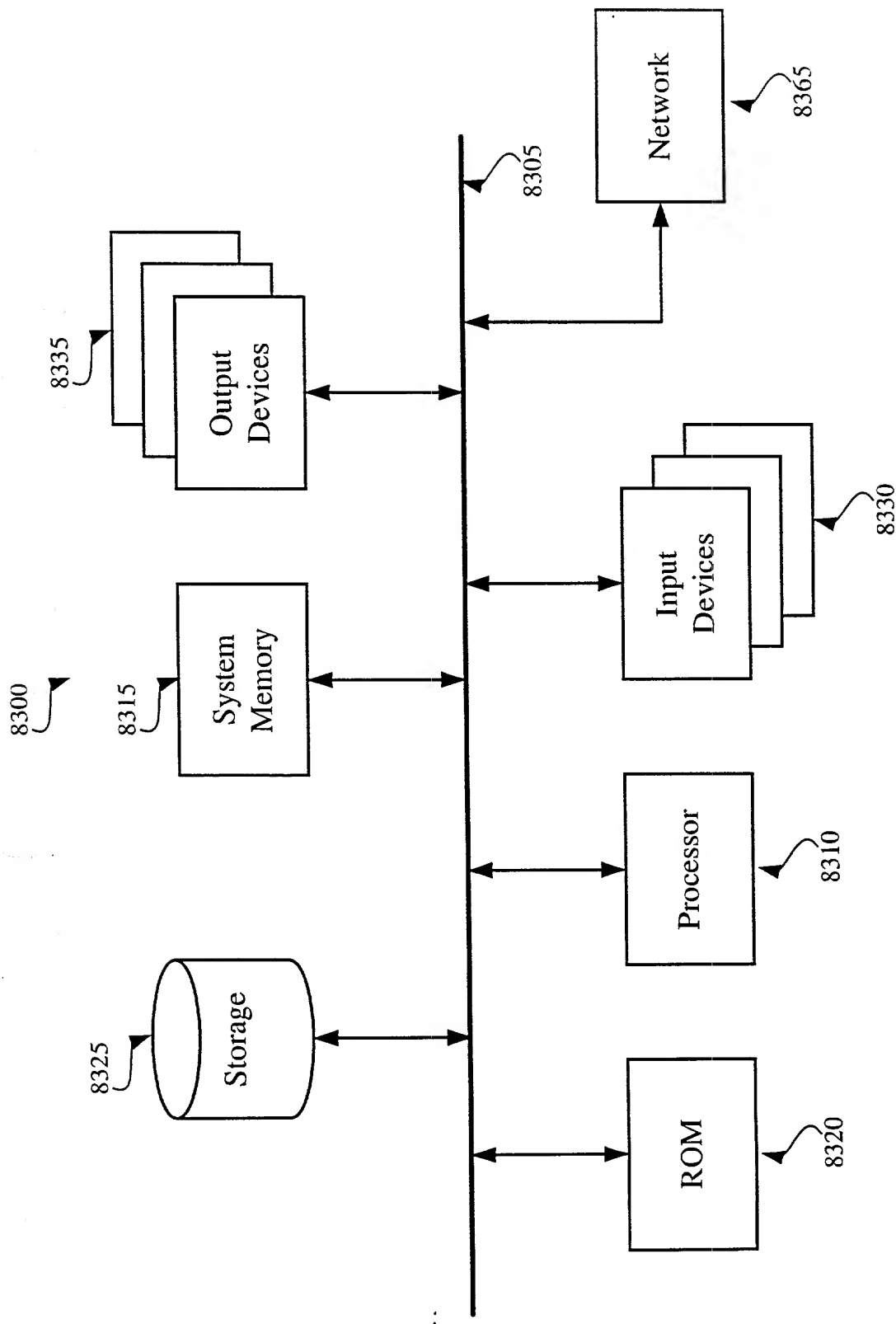


Figure 83